

FIG. 1A

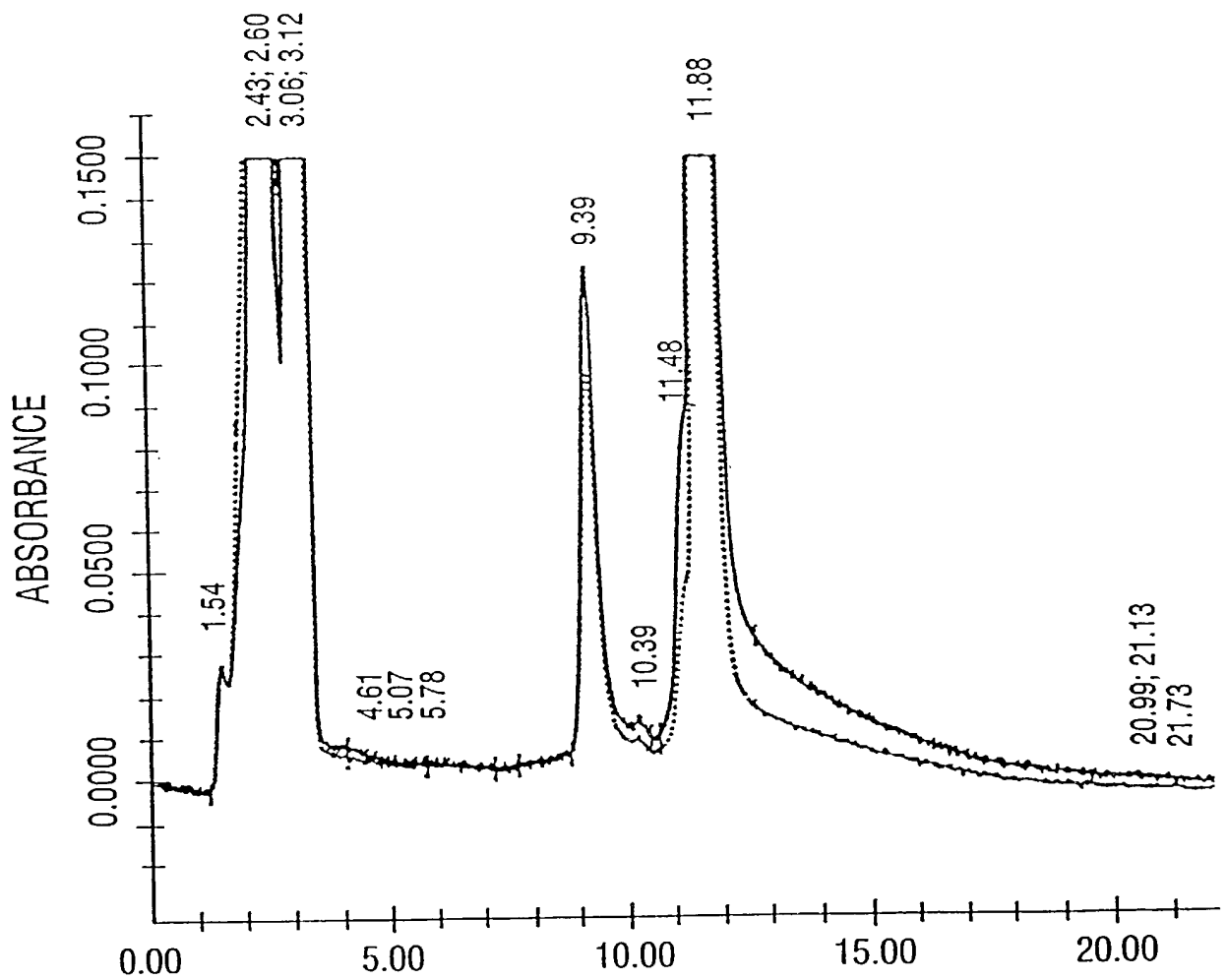


FIG. 1B

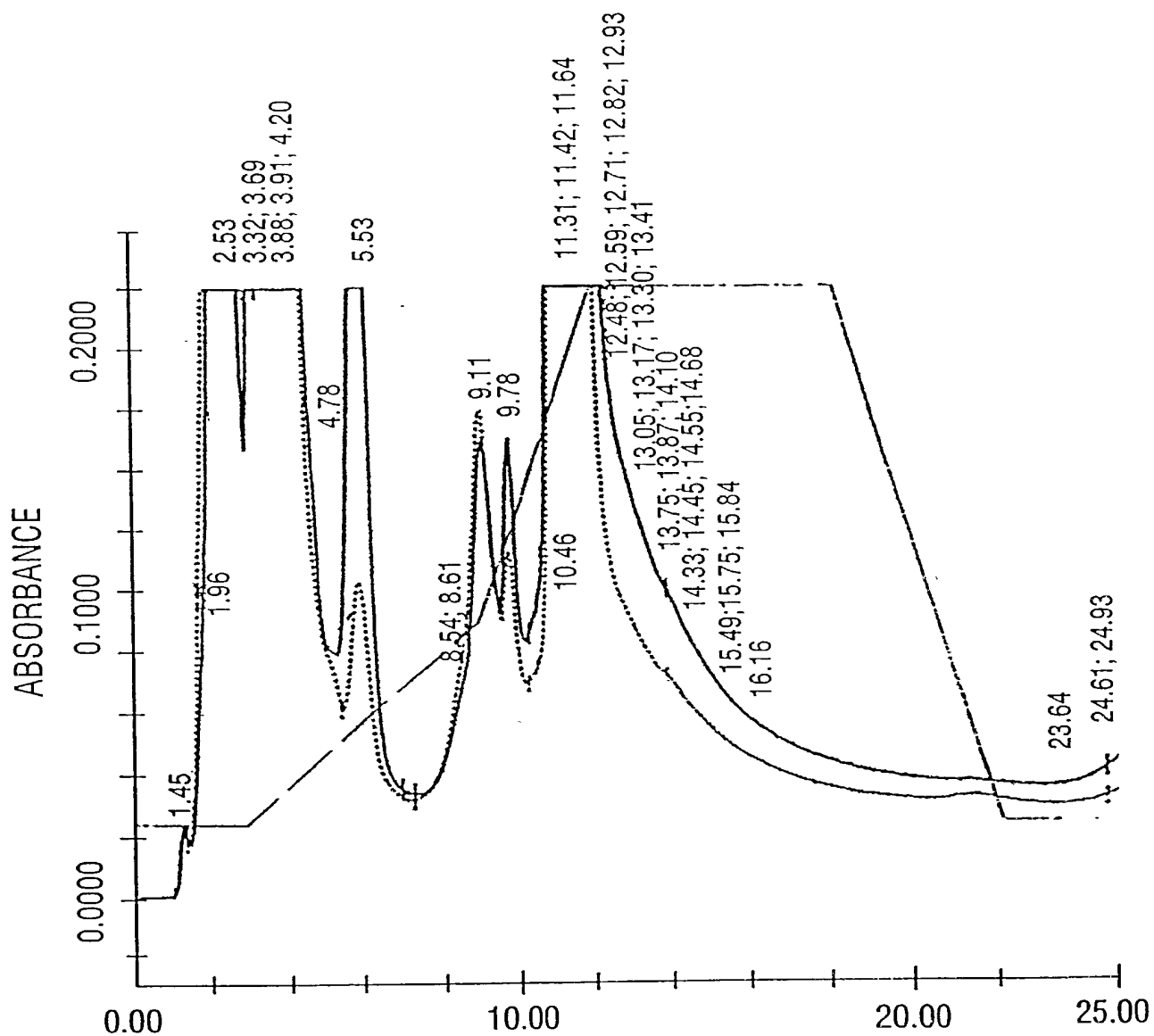


FIG. 2

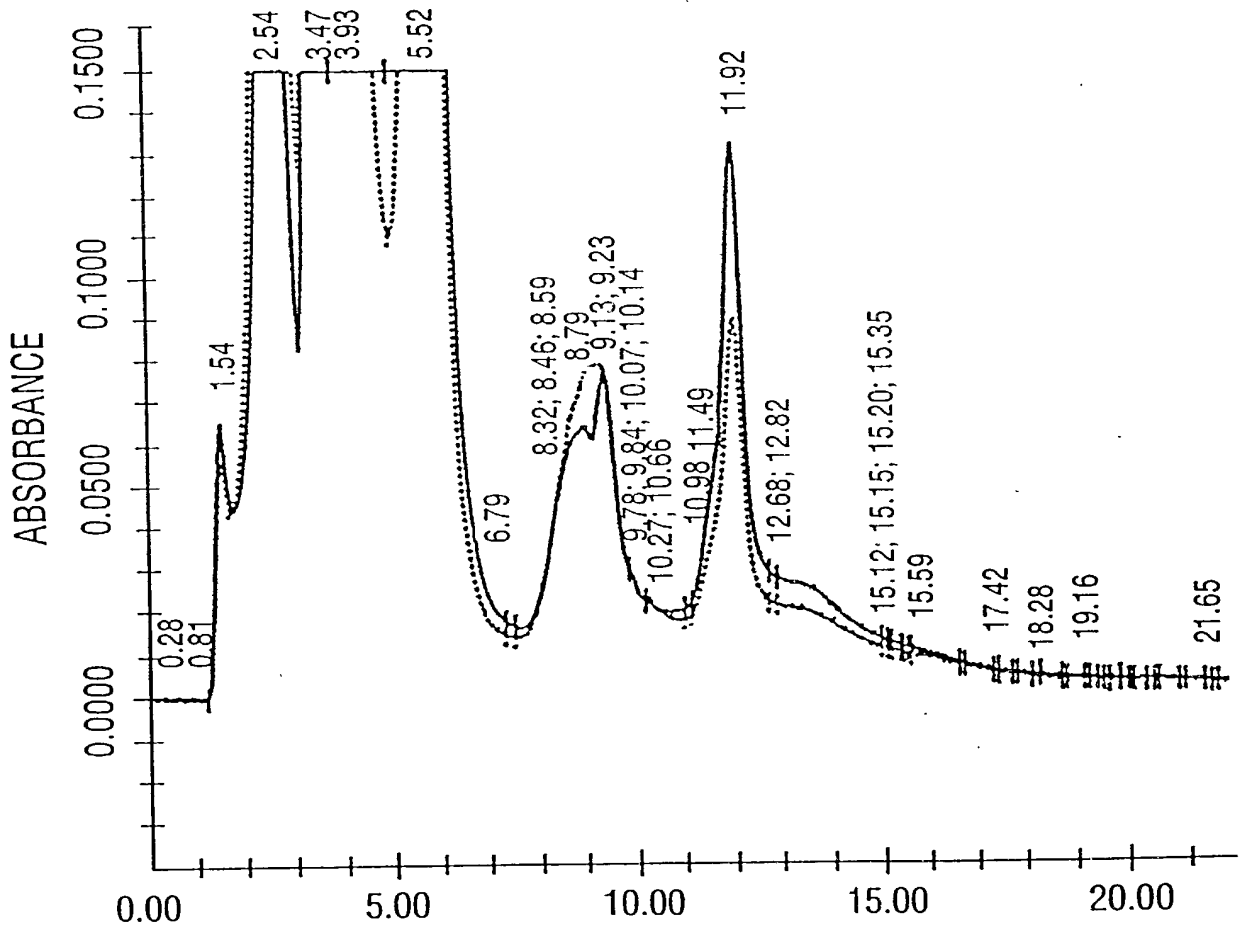


FIG. 3B

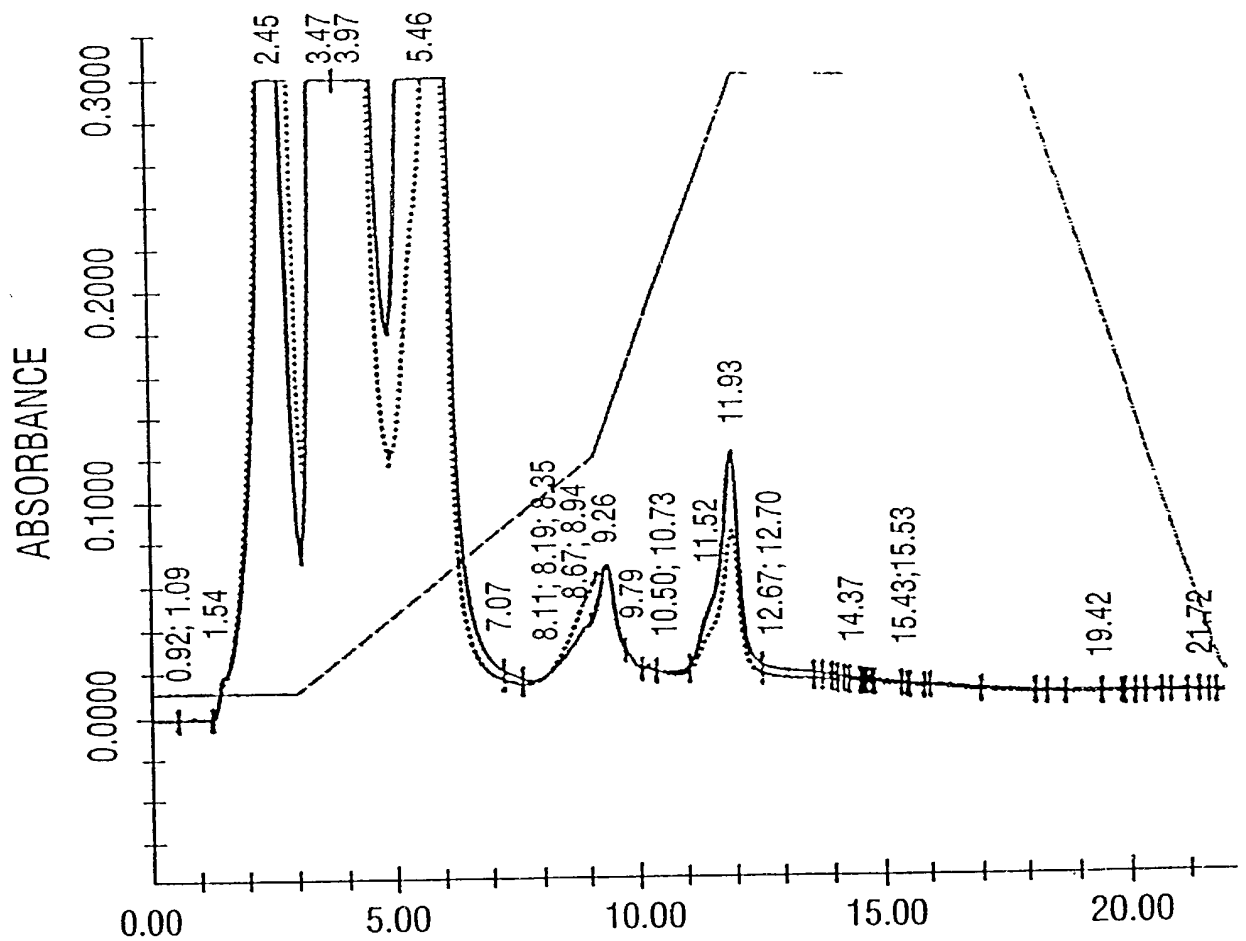


FIG. 3C

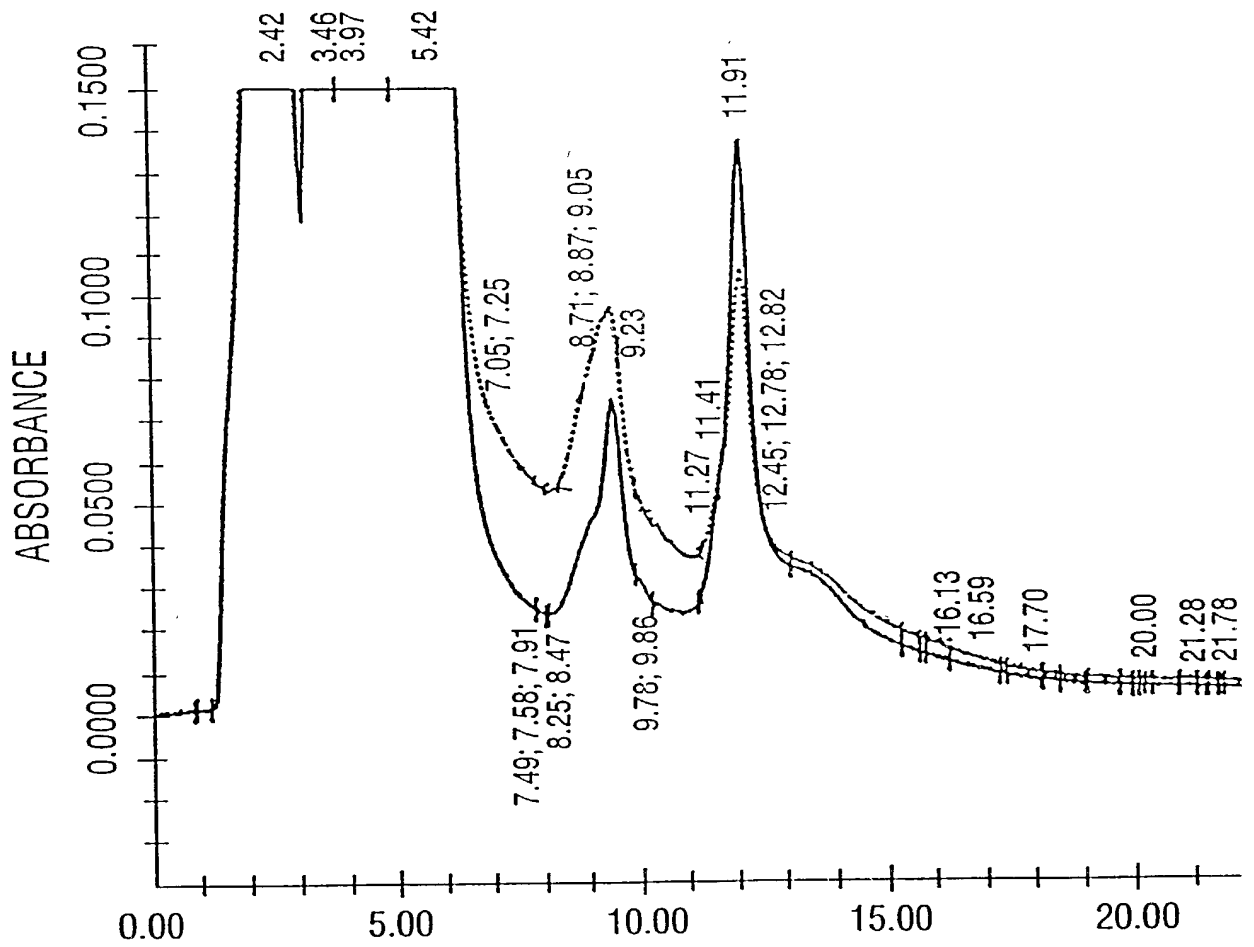


FIG. 3D

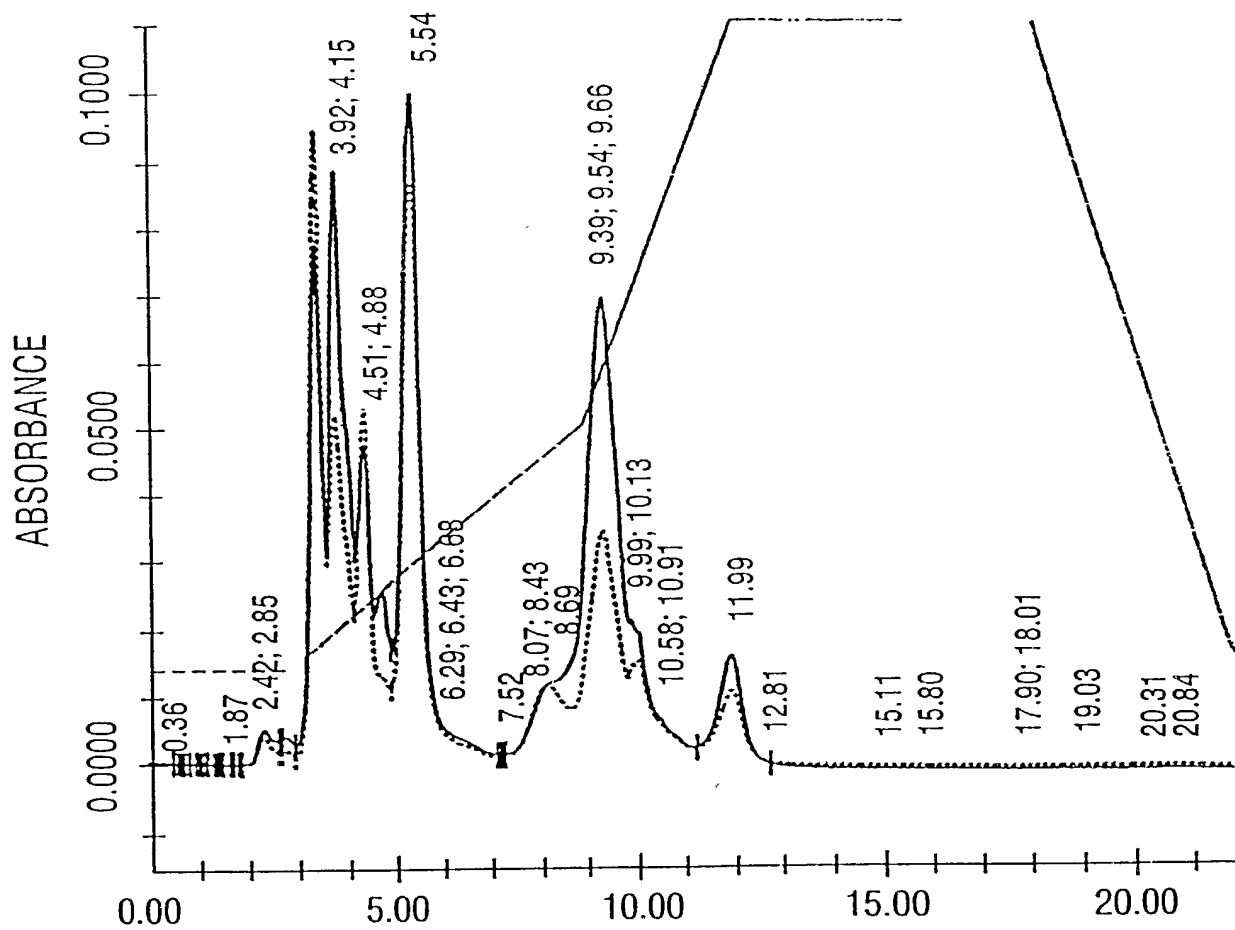


FIG. 3E

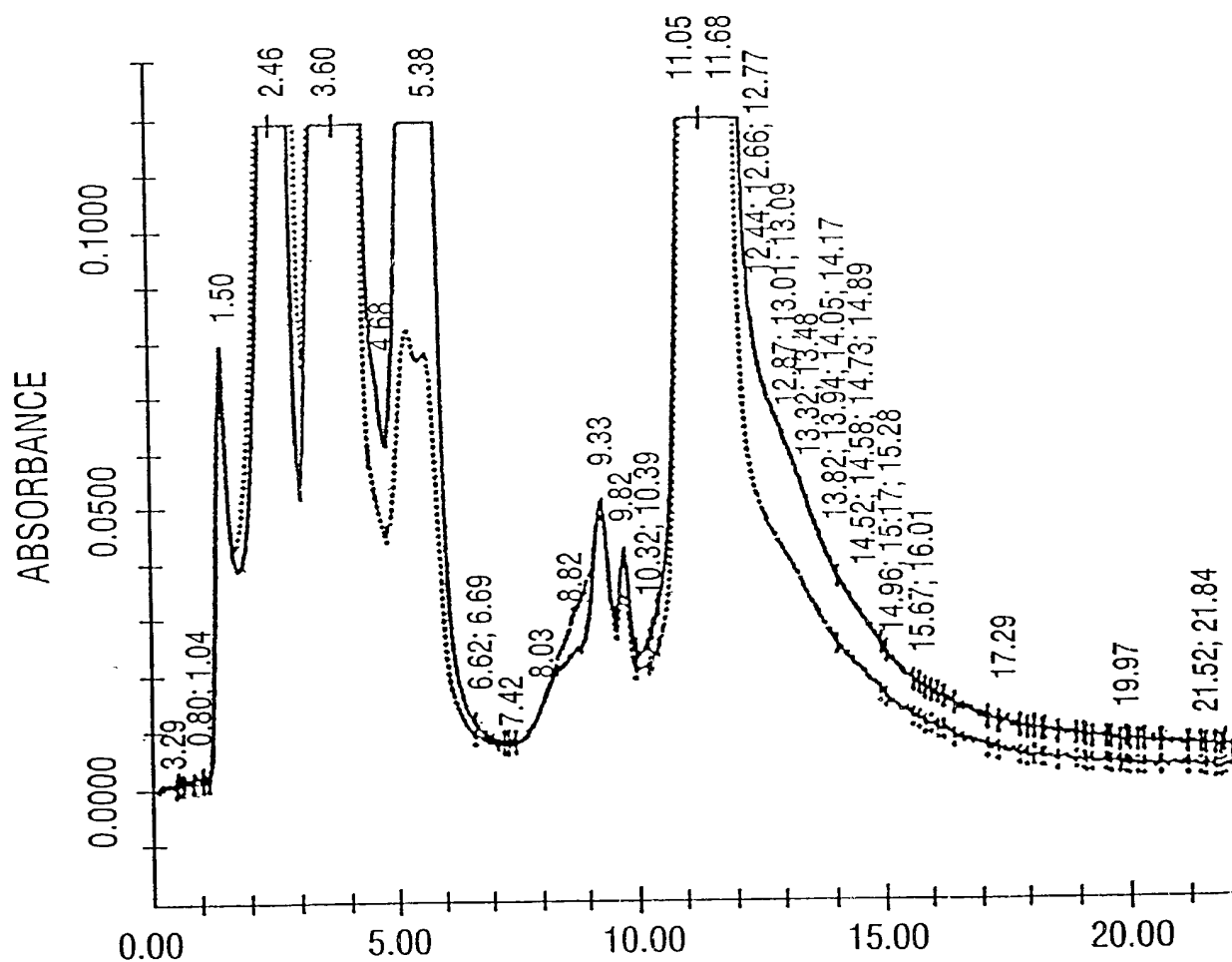


FIG. 4A





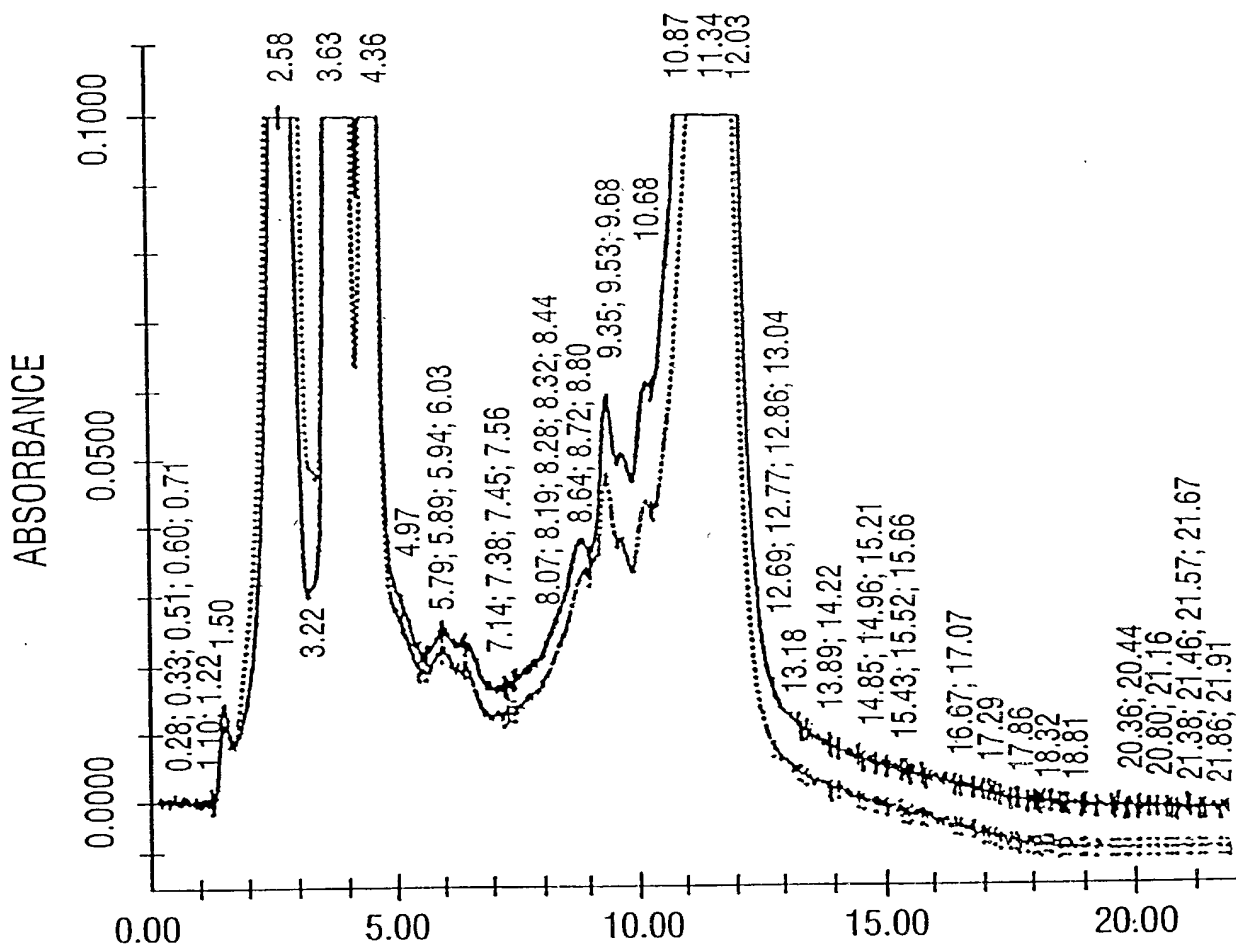


FIG. 5

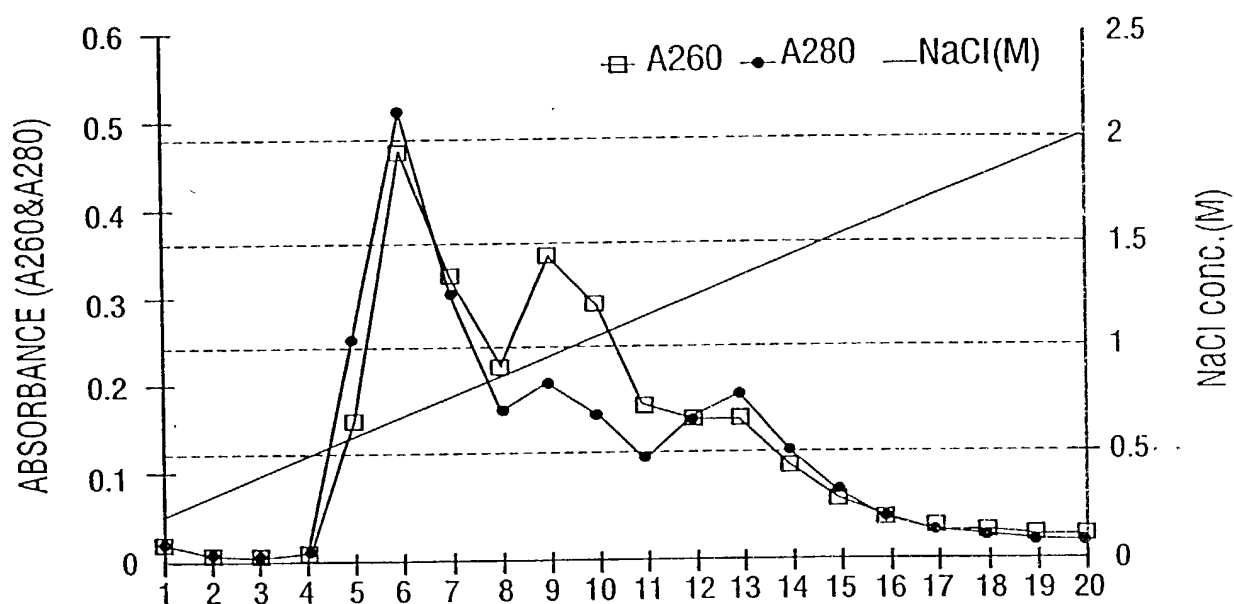


FIG. 6

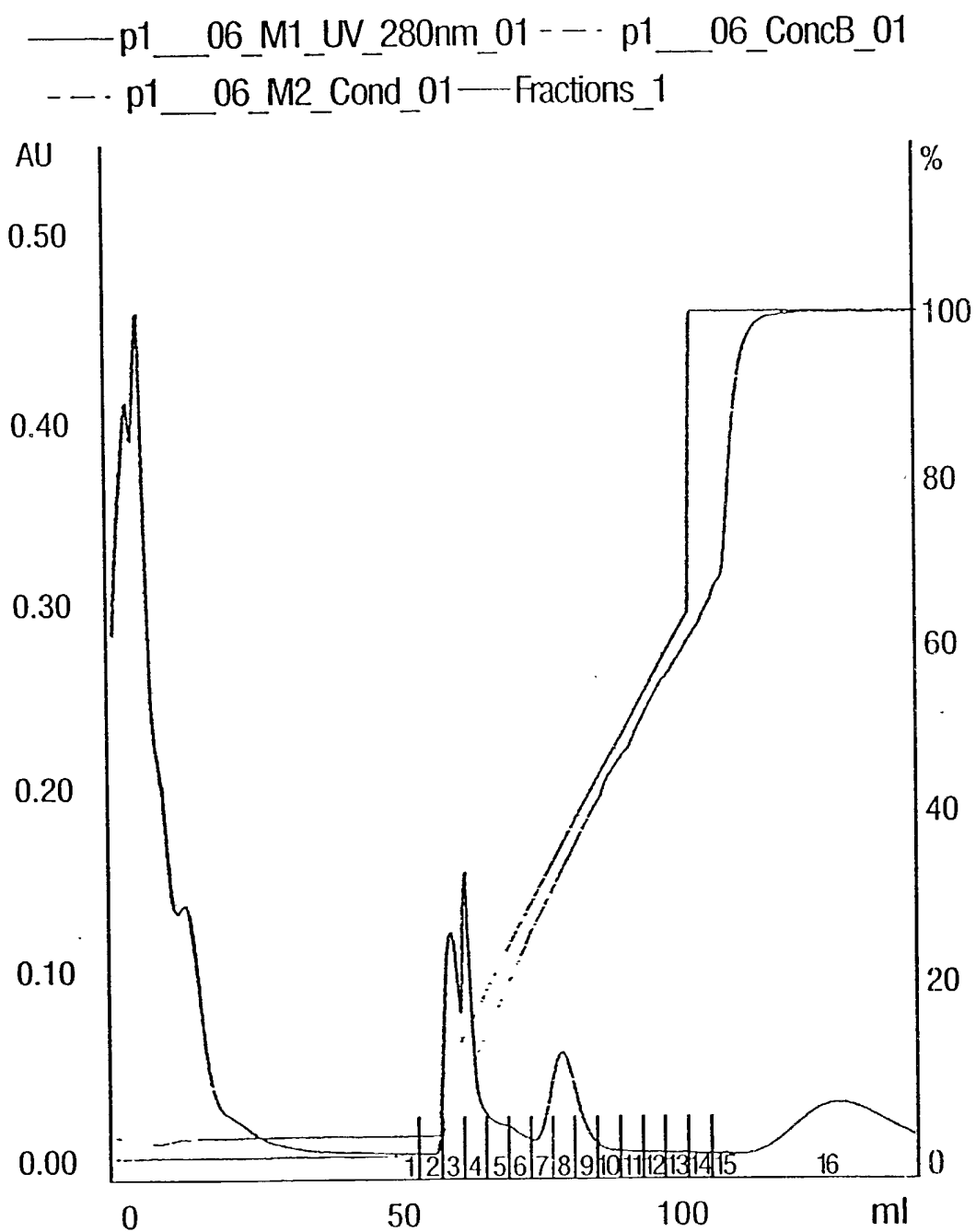


FIG. 7

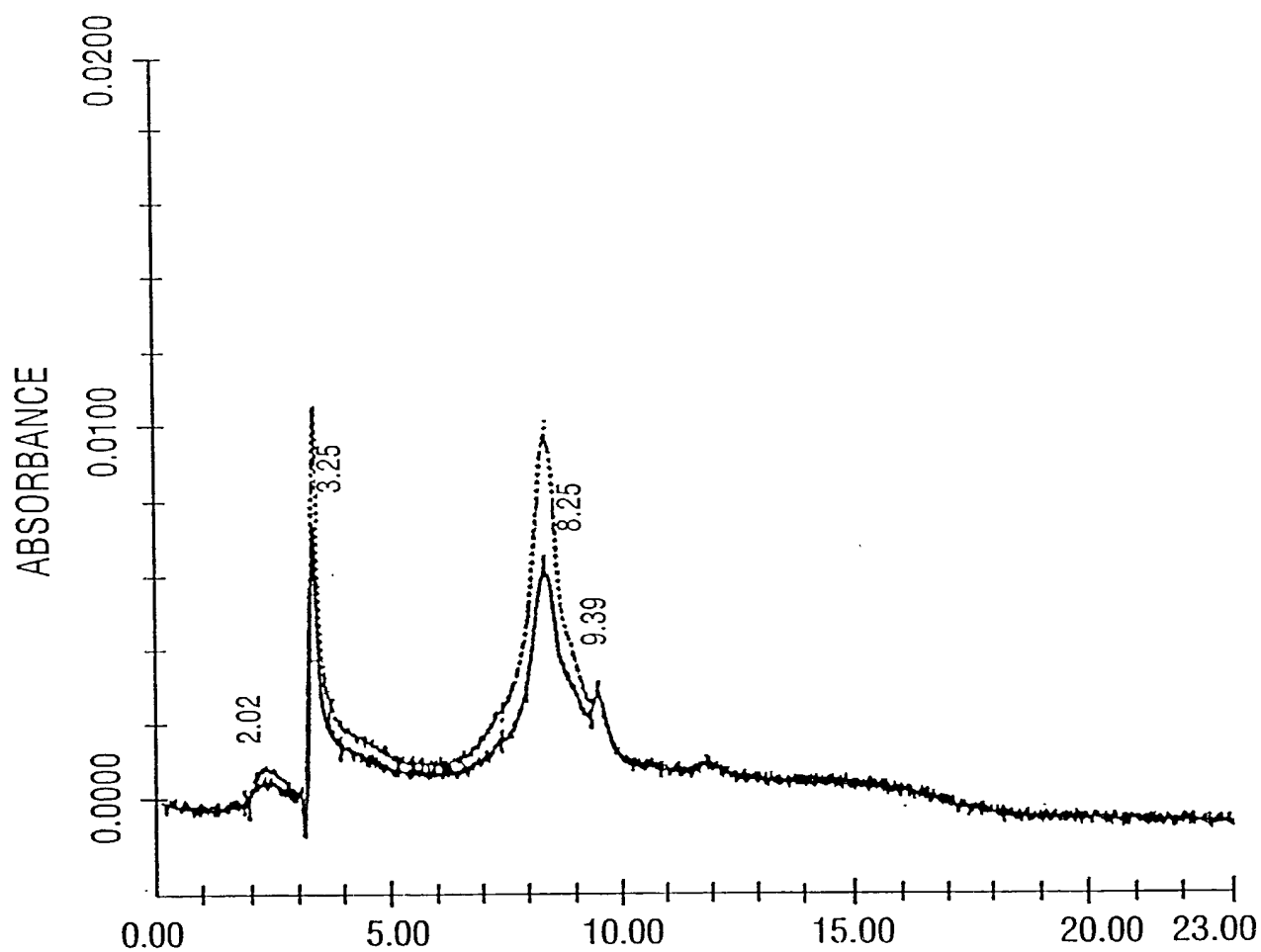


FIG. 8A

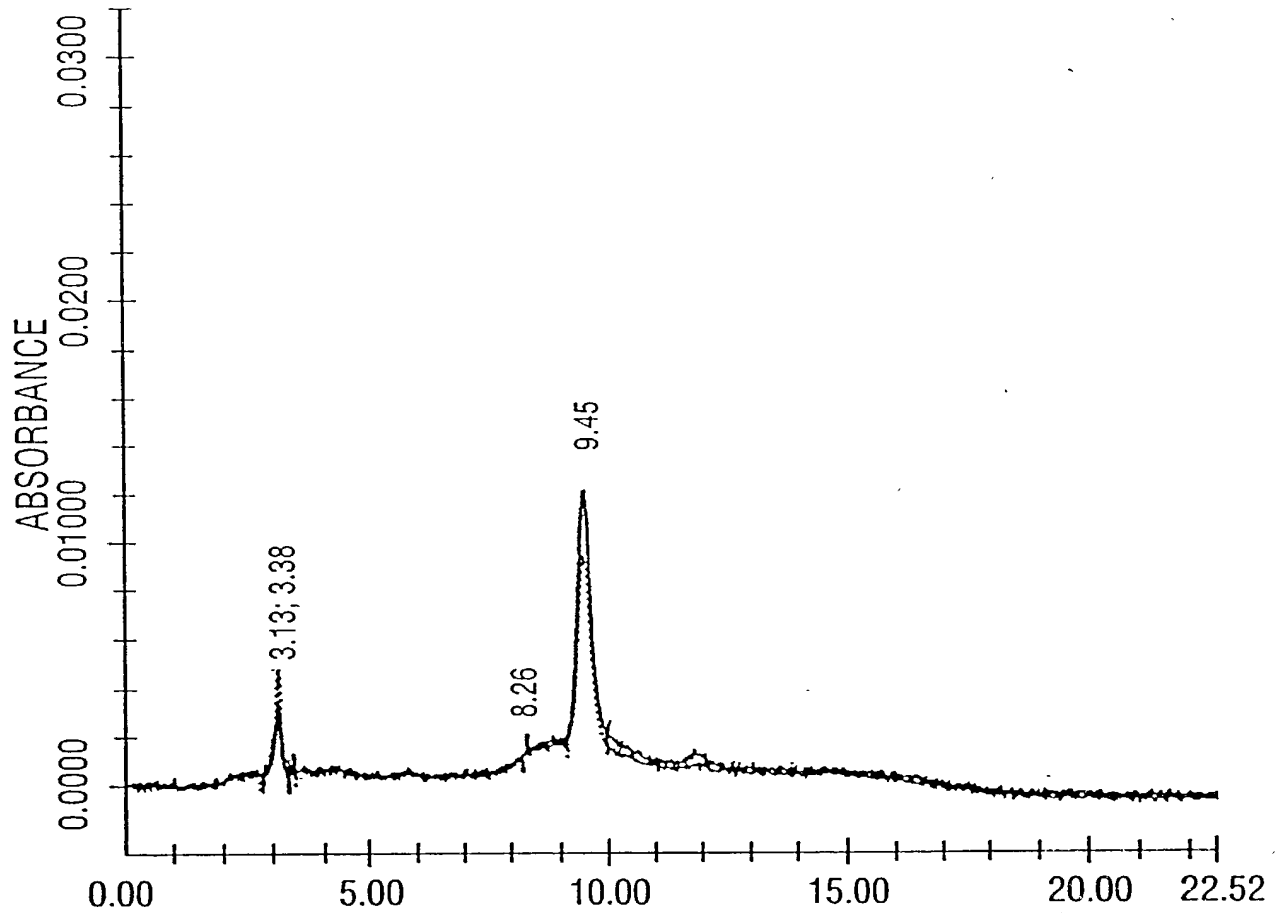


FIG. 8B

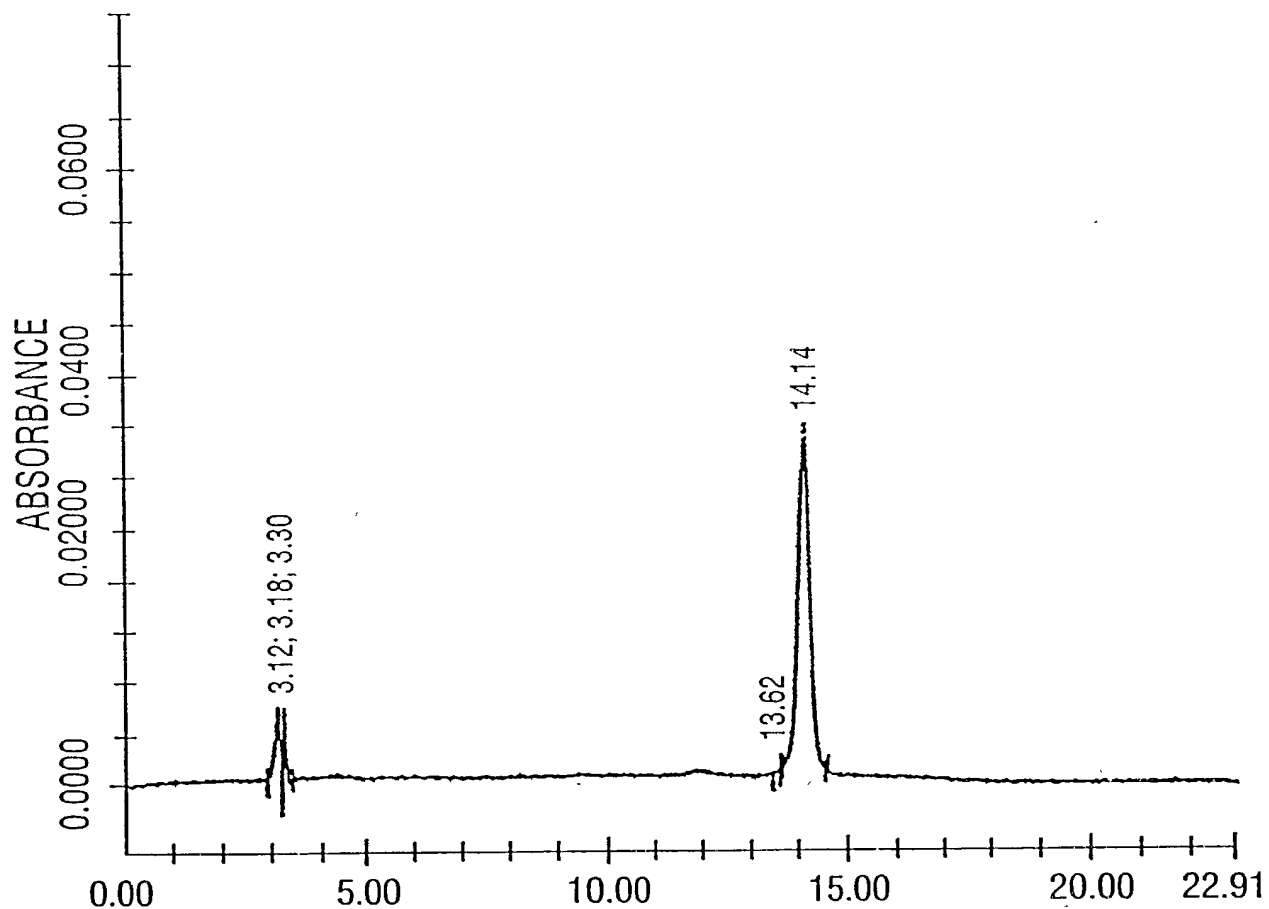


FIG. 8C

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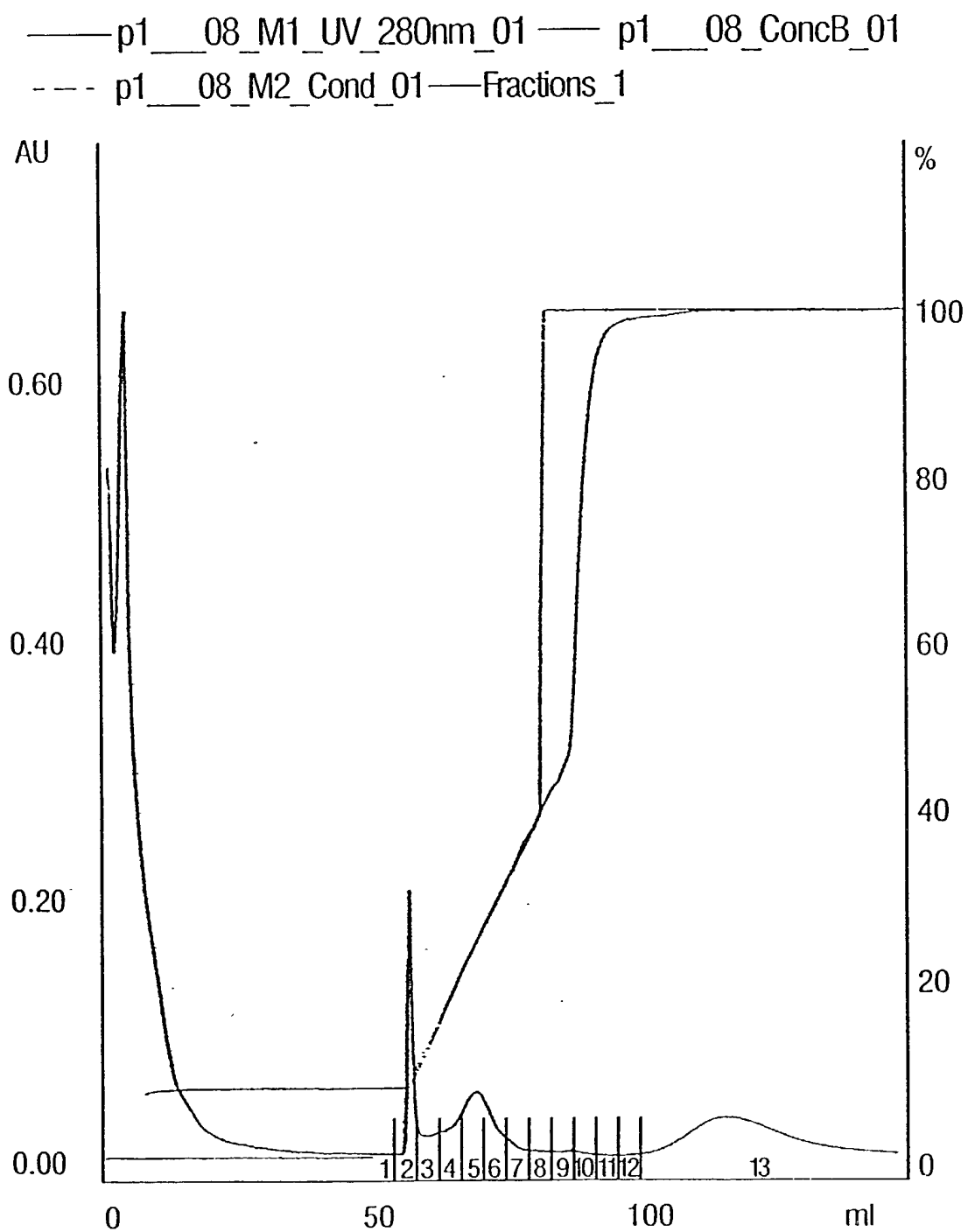


FIG. 9



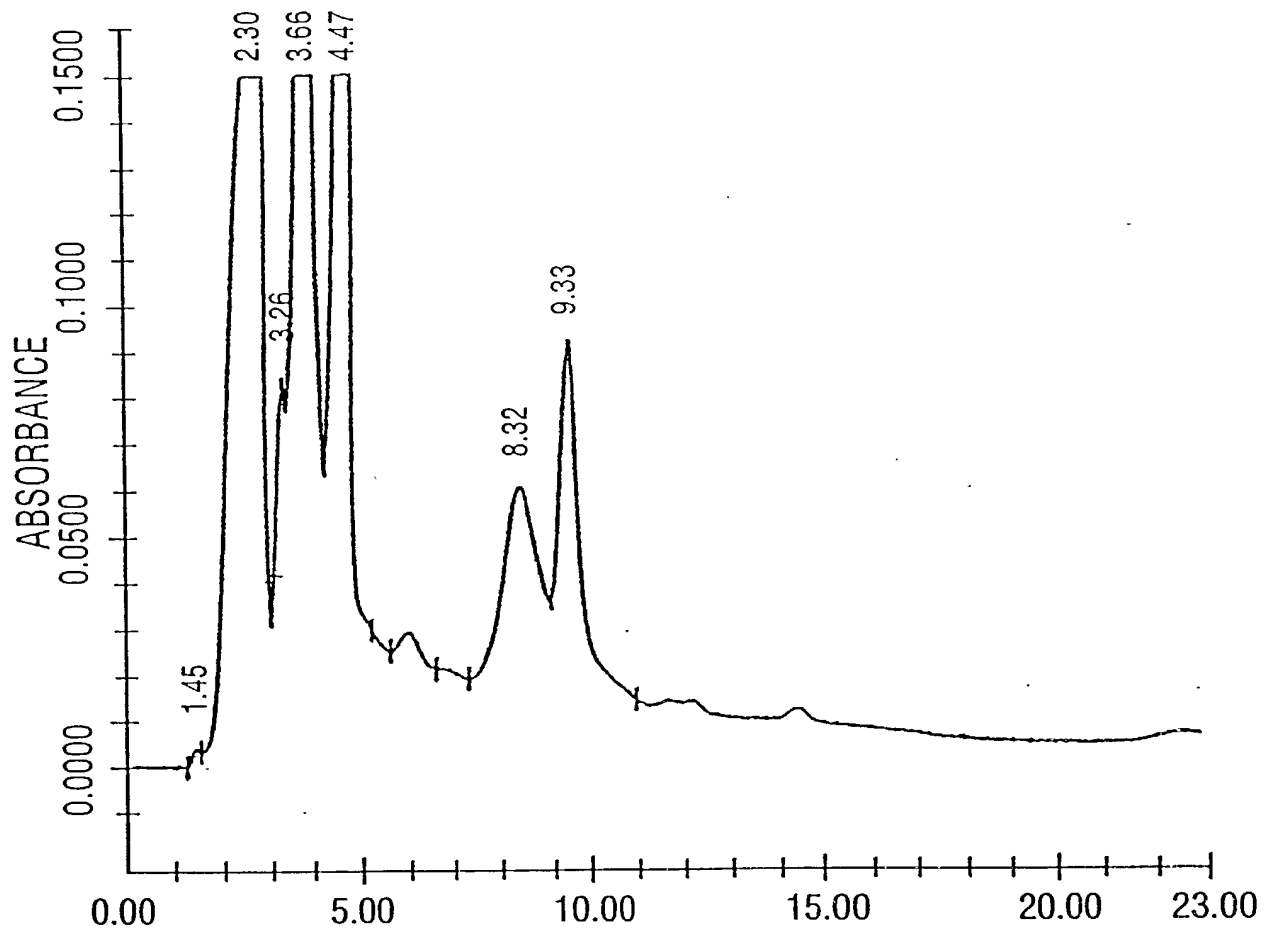


FIG. 10A

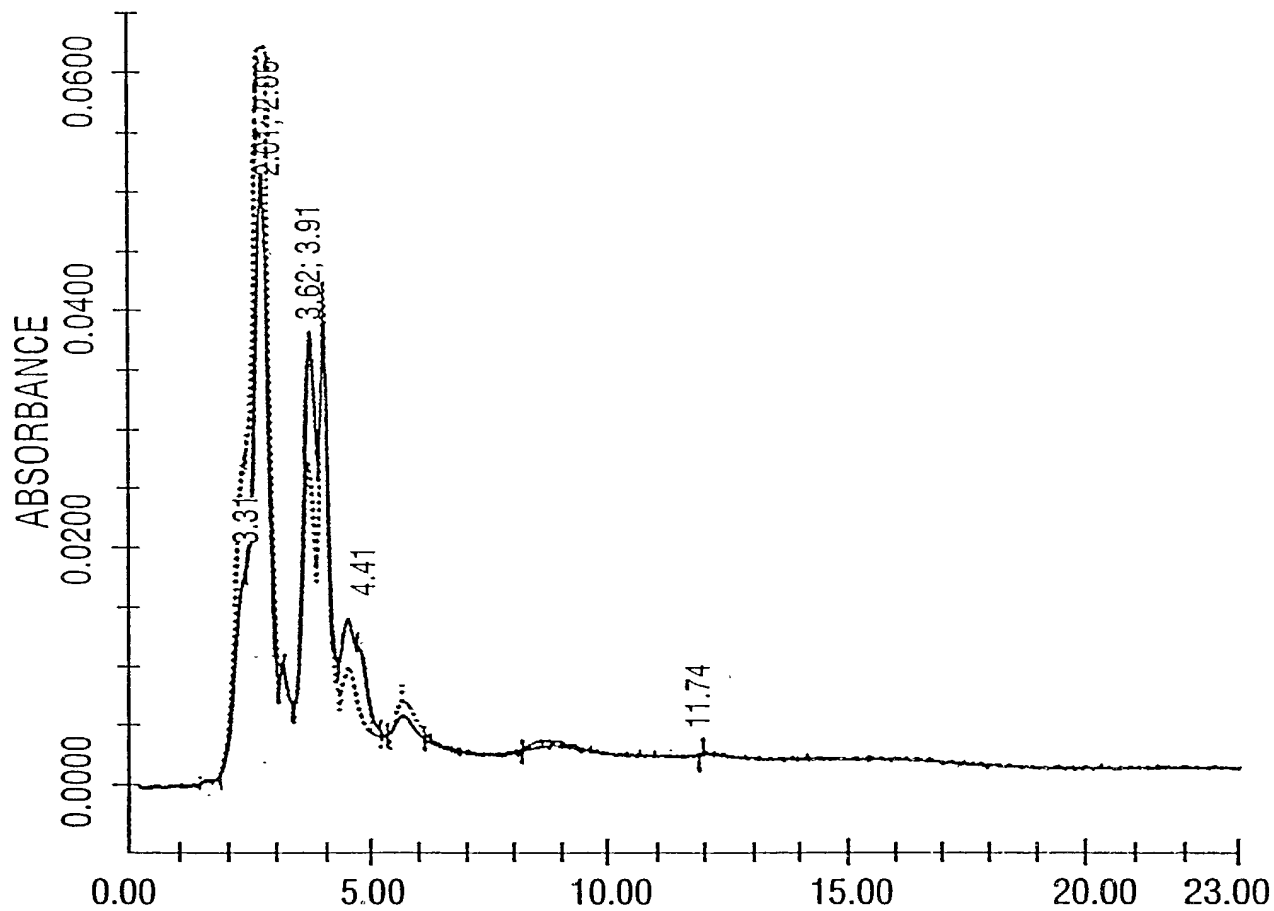


FIG. 10B

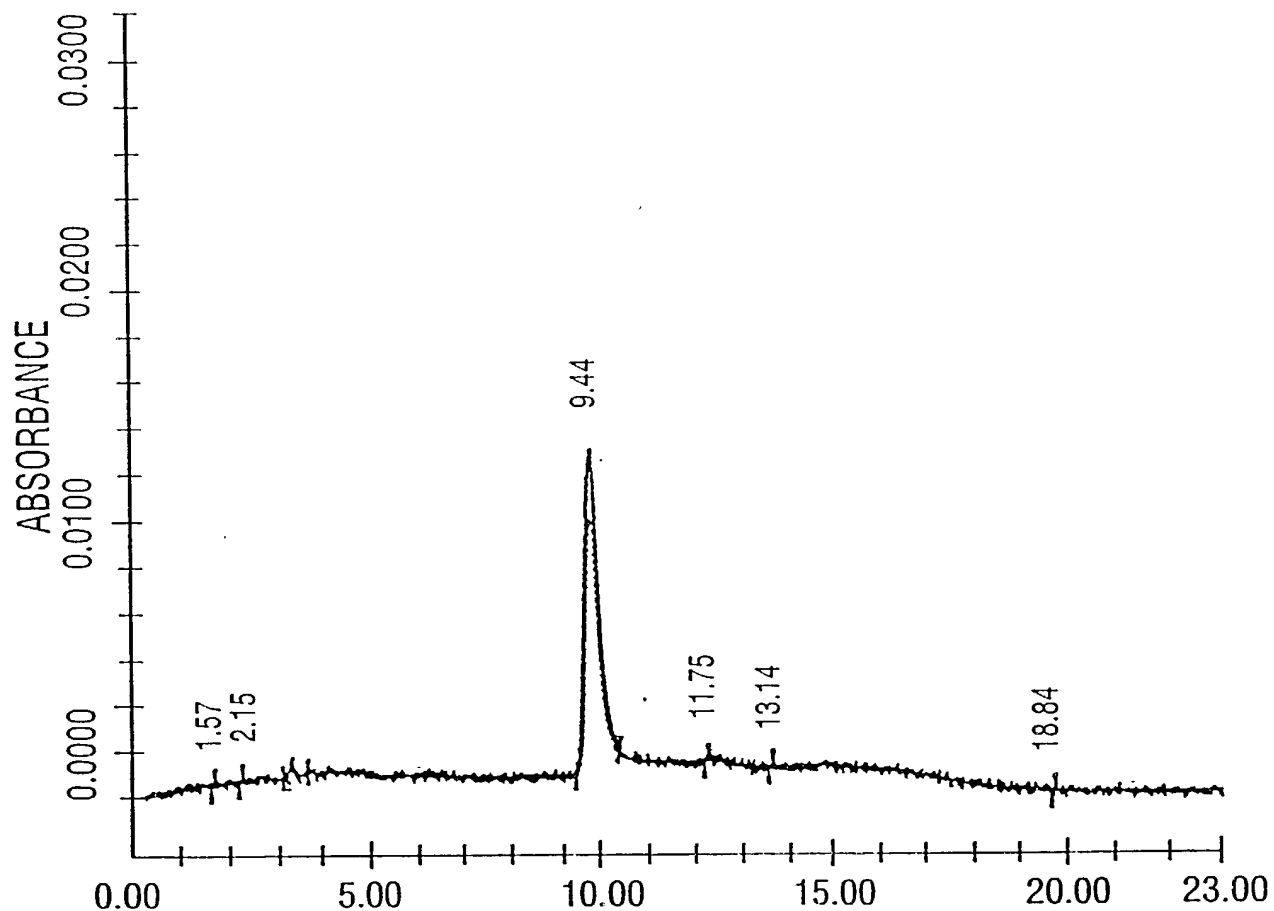


FIG. 10C

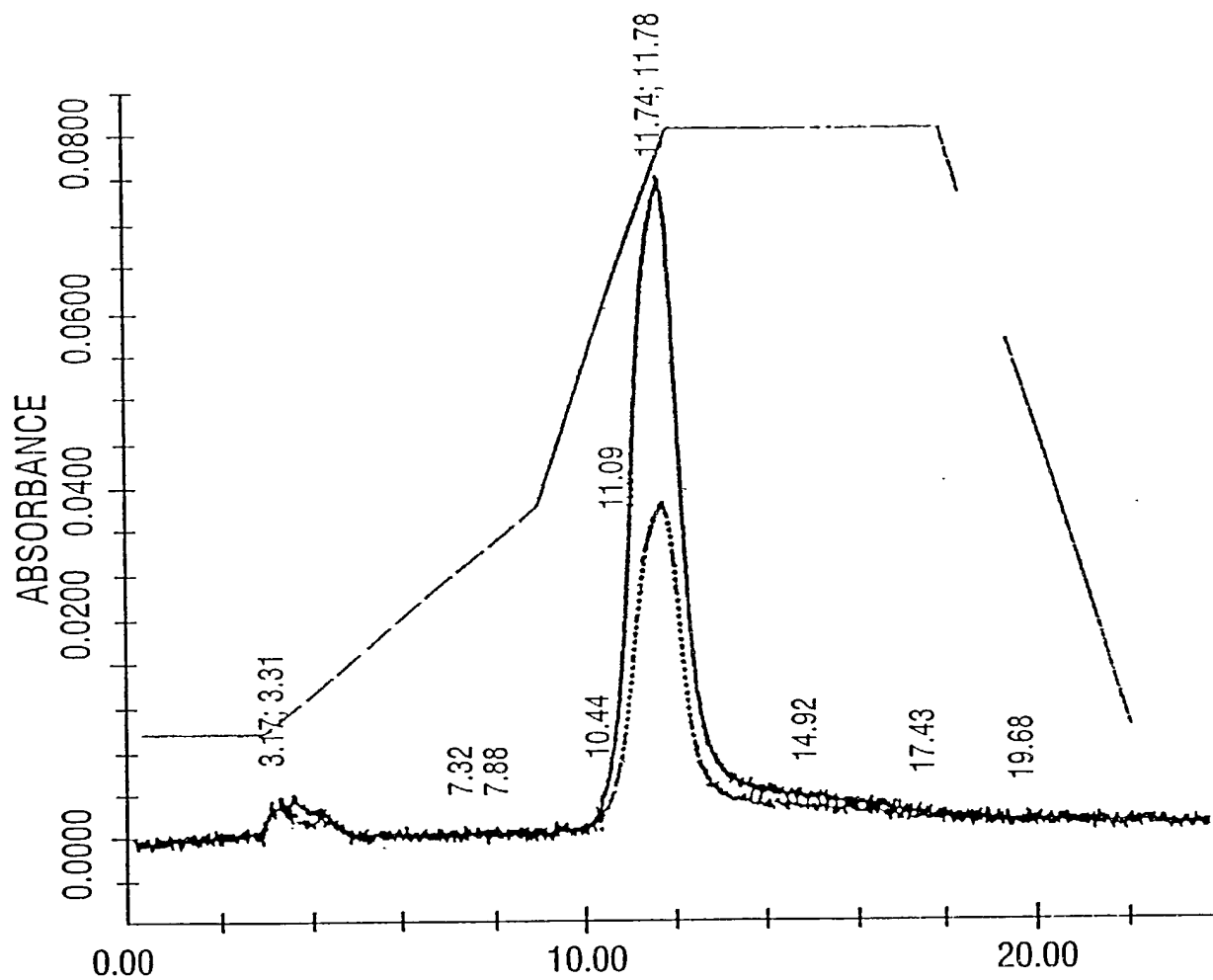


FIG. 10D

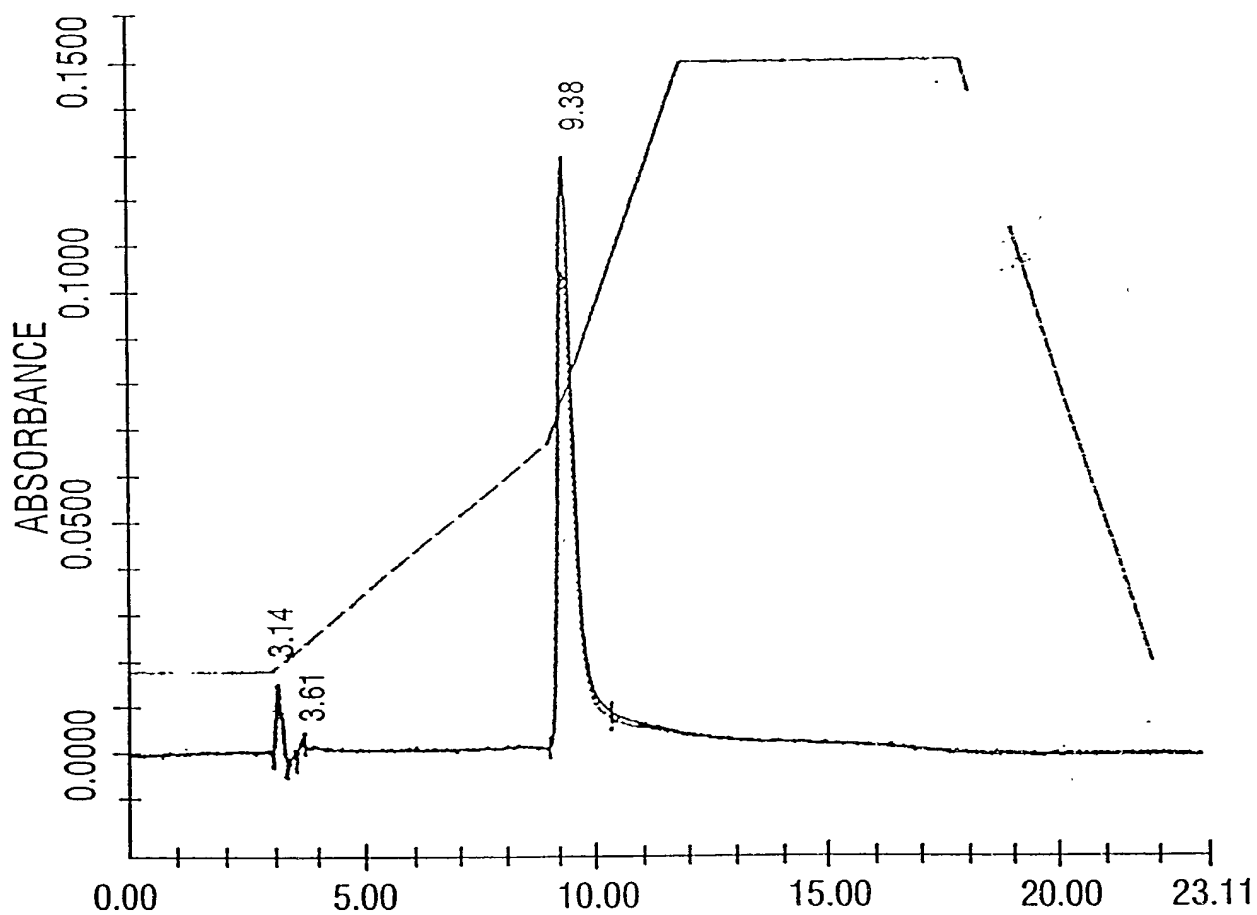


FIG. 10E

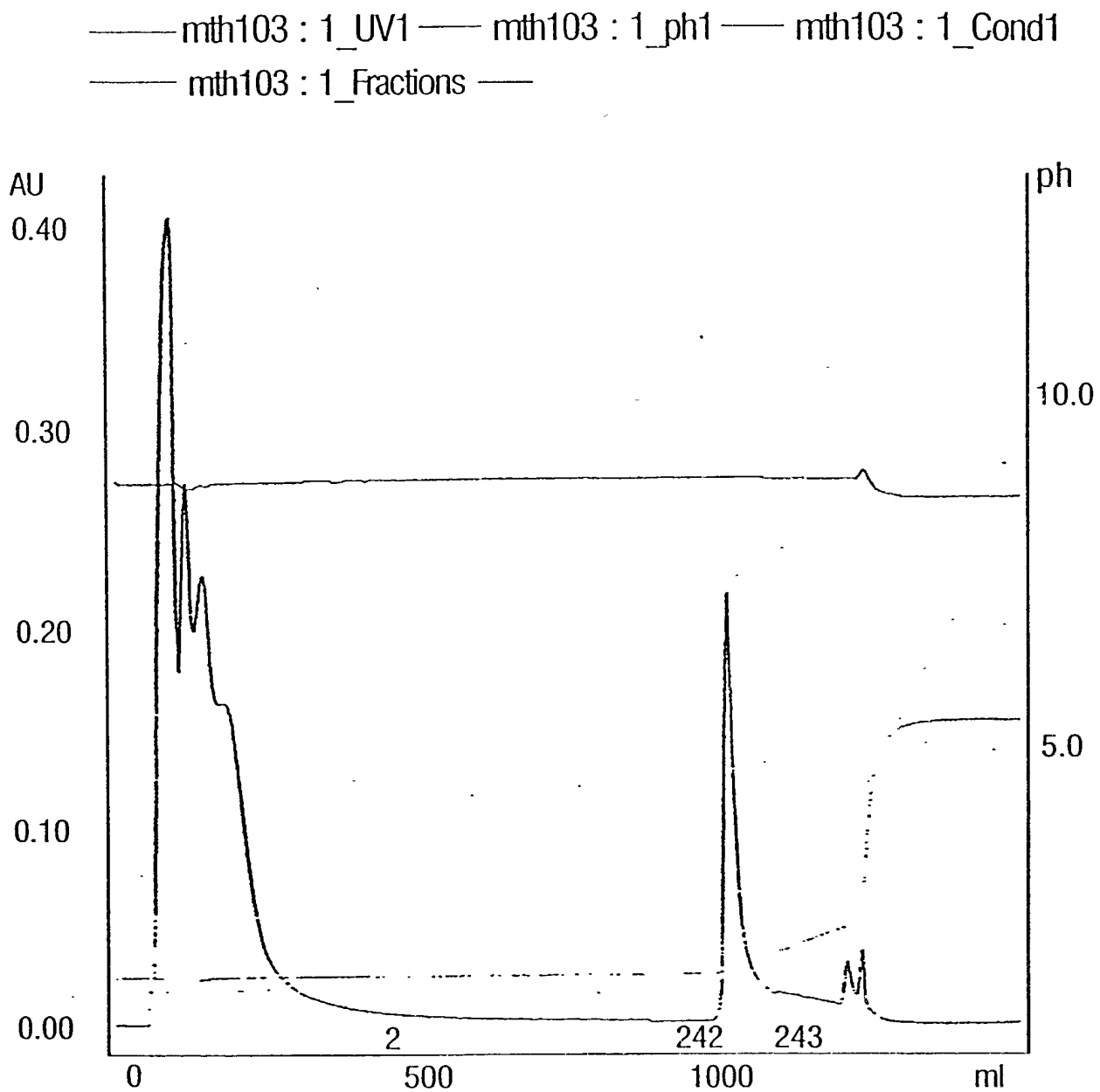


FIG. 11

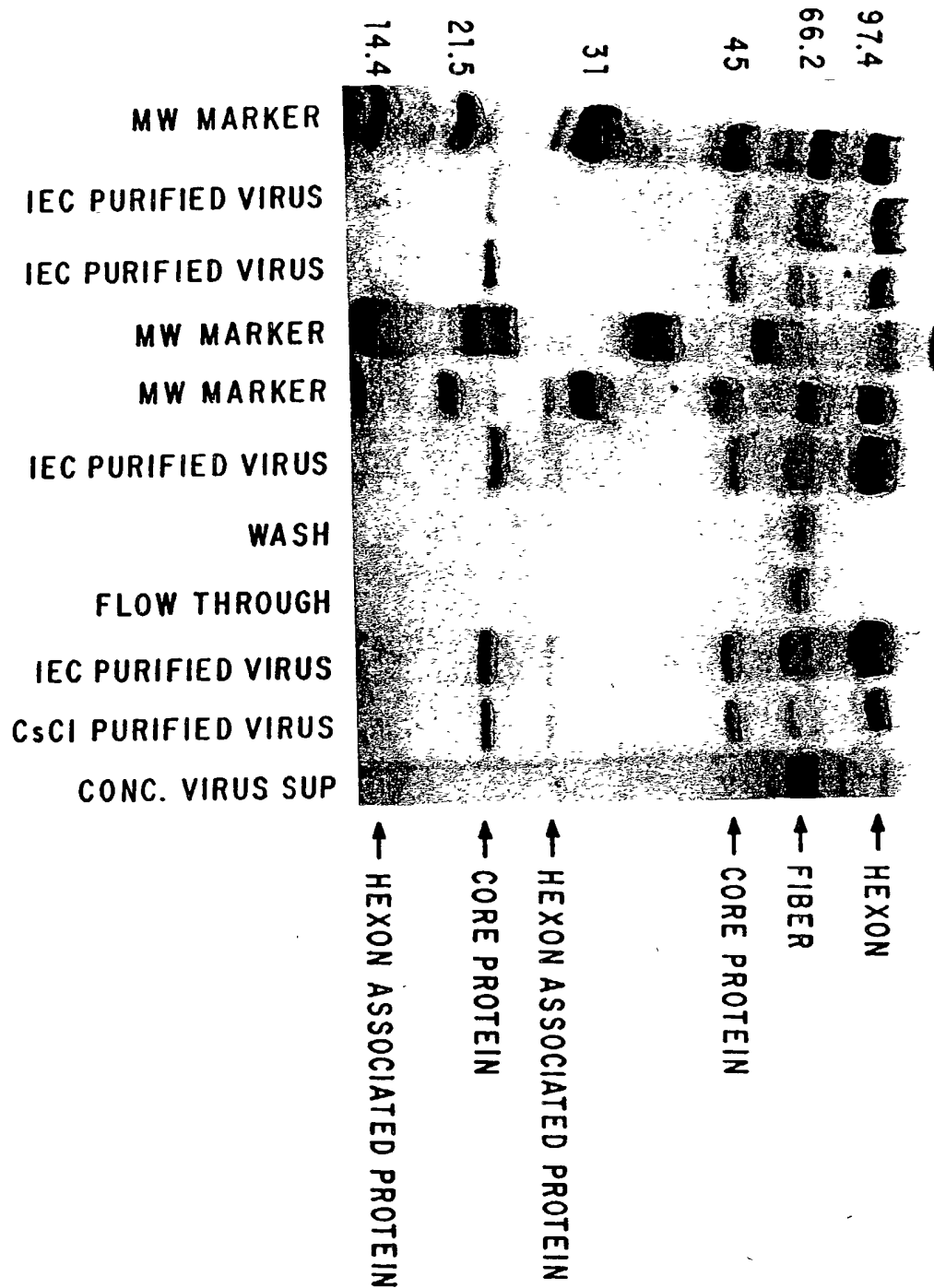


FIG.12

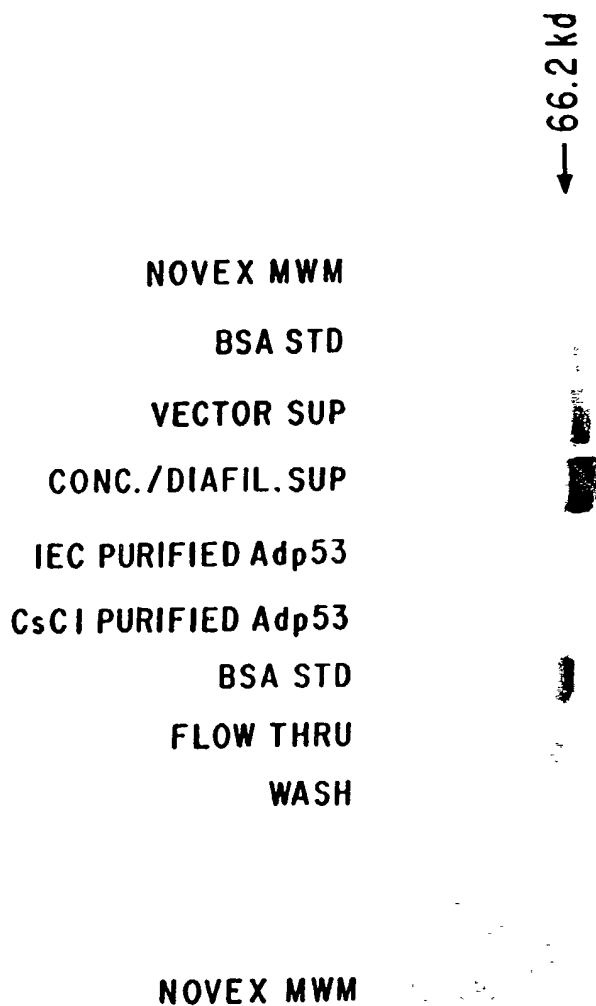


FIG.13



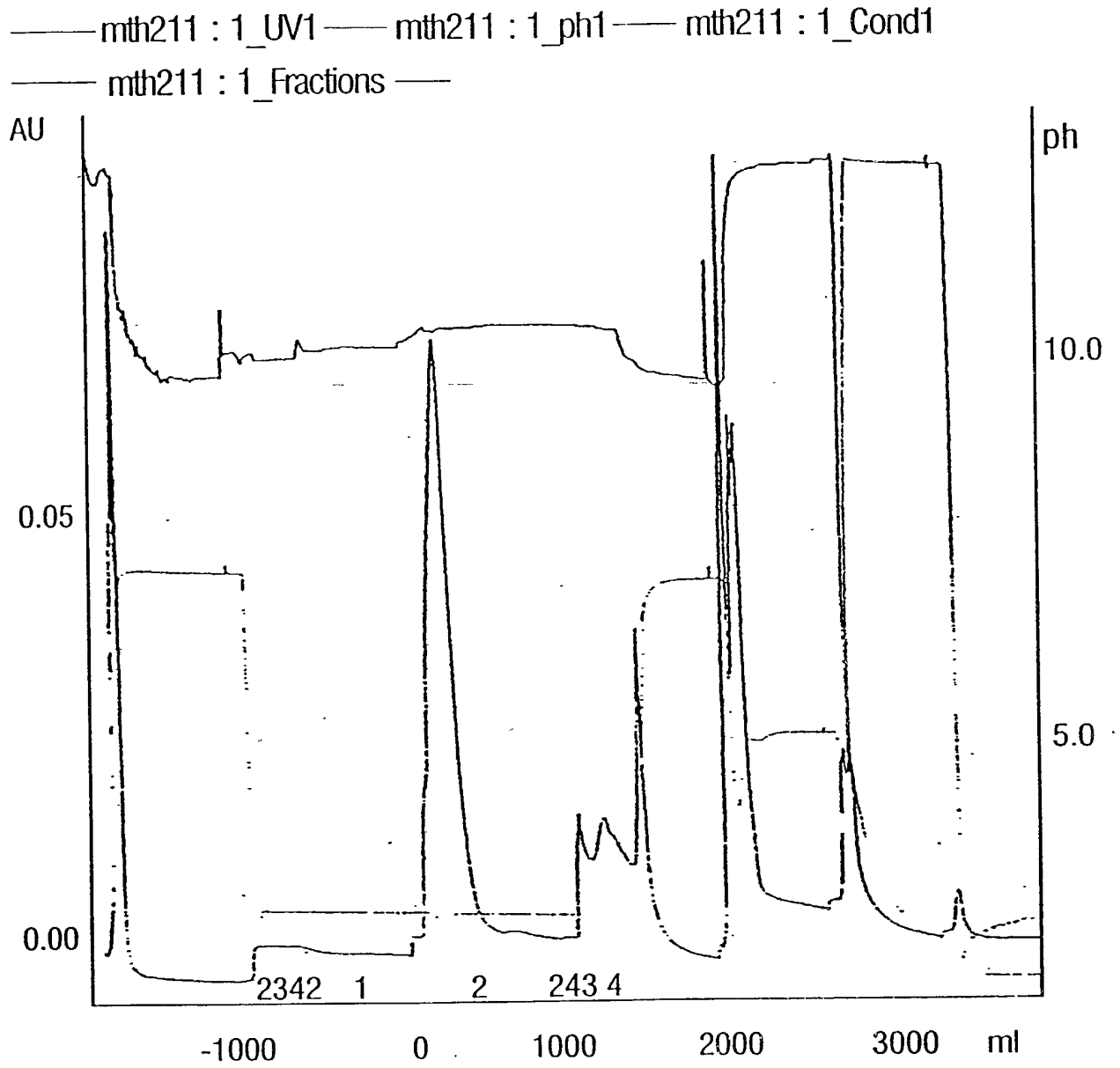


FIG. 14

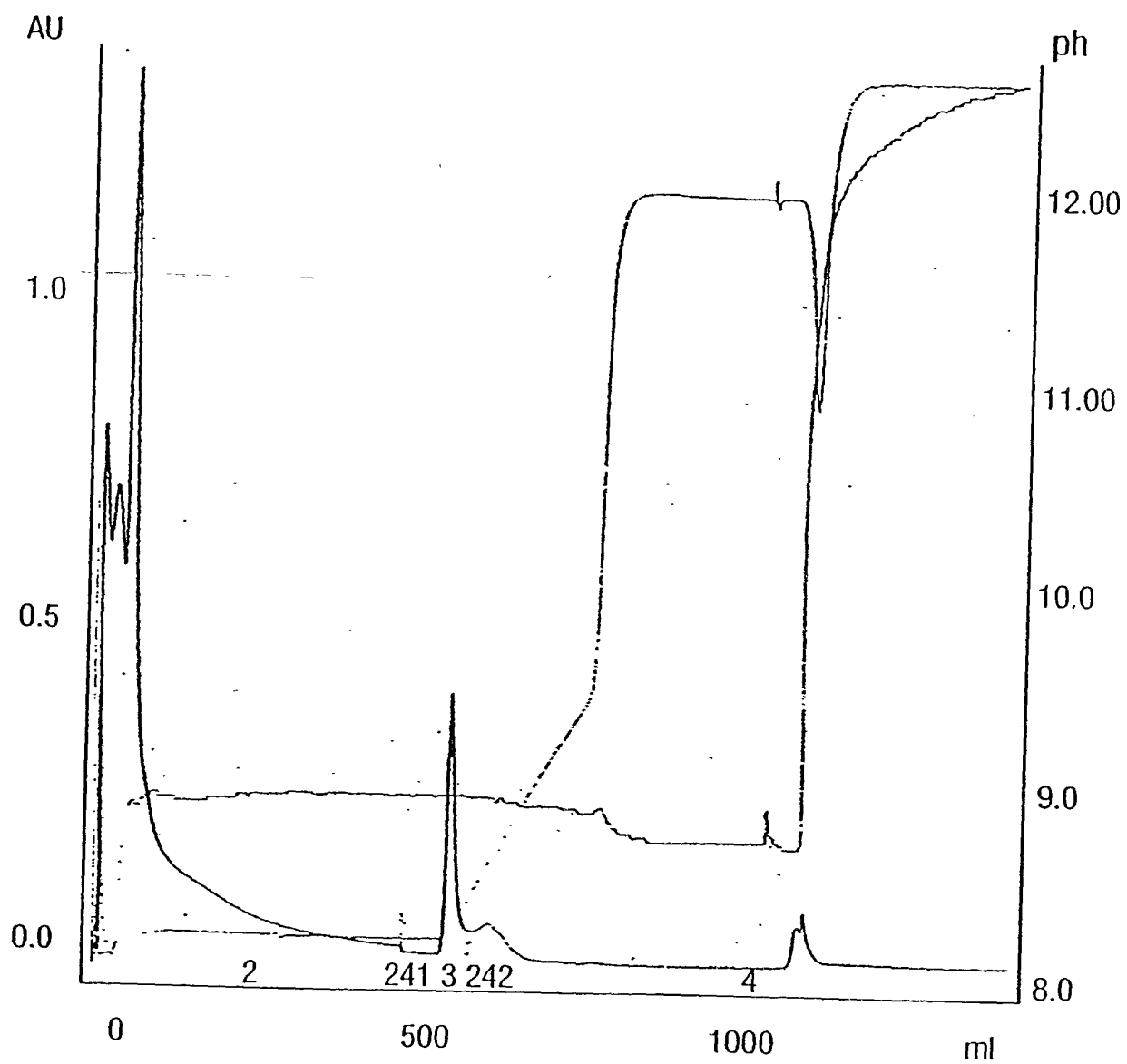


FIG. 15

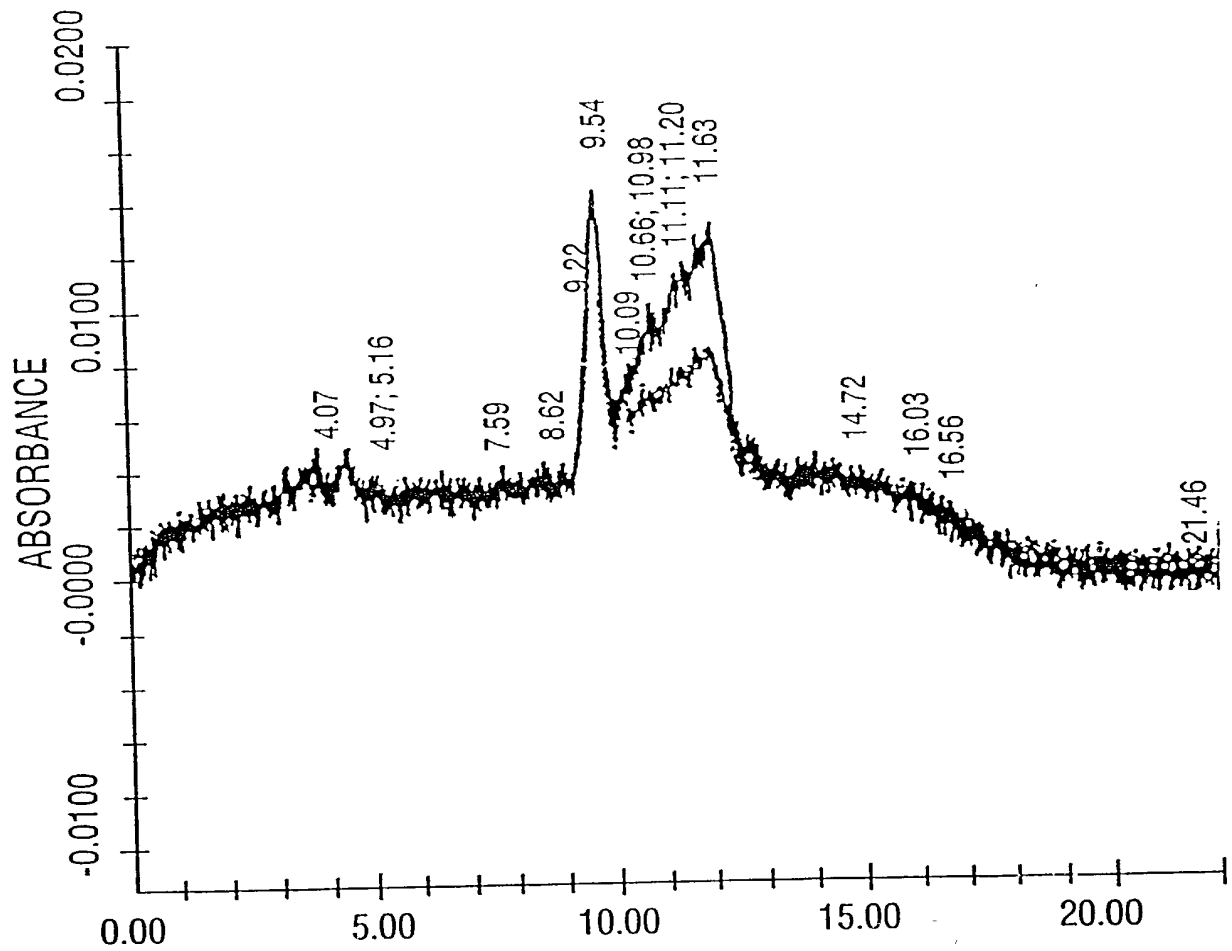


FIG. 16A

1103 06 27 21 05 10 06

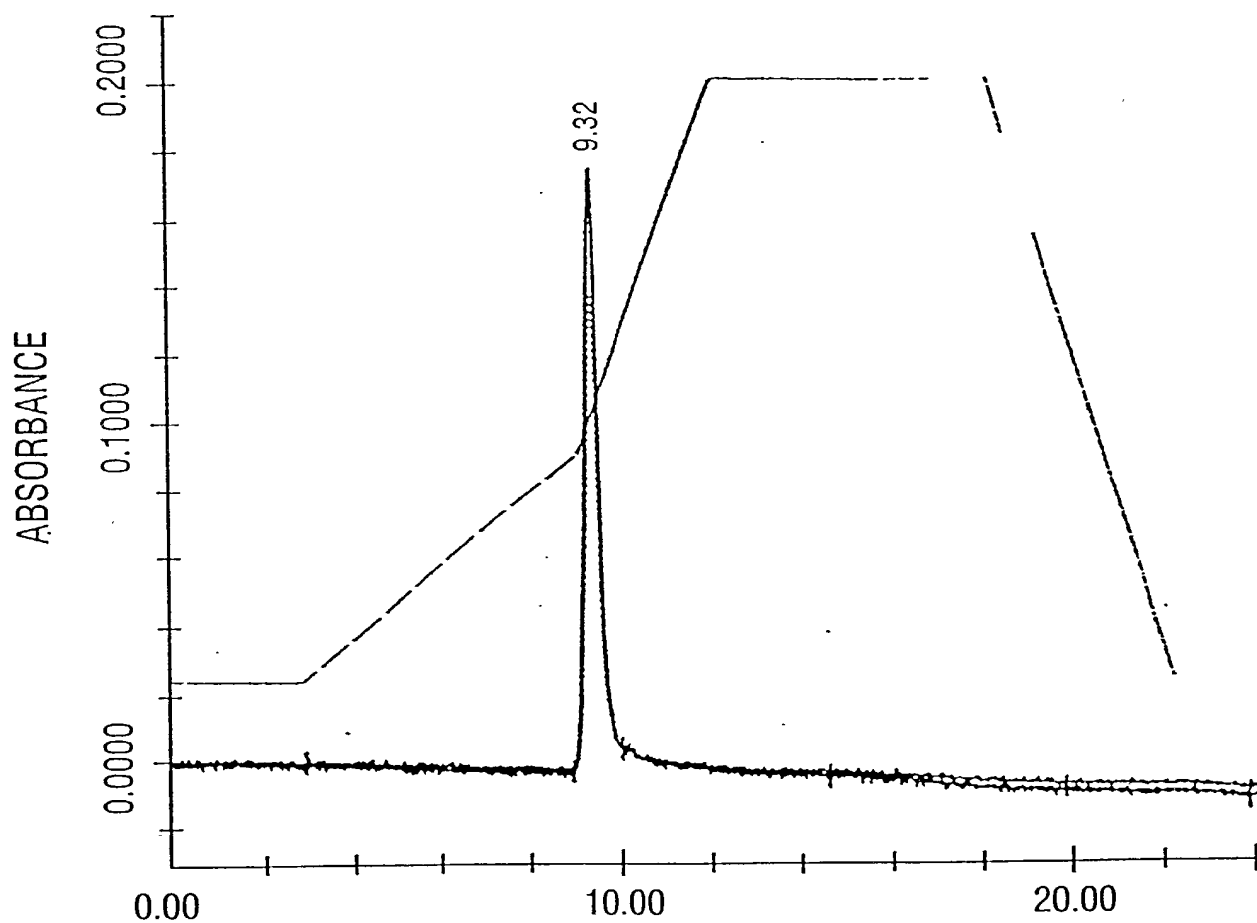


FIG. 16B

— mth412 : 1\_UV1 — mth412 : 1\_ph1 — mth412 : 1\_Cond1  
— mth412 : 1\_Fractions —

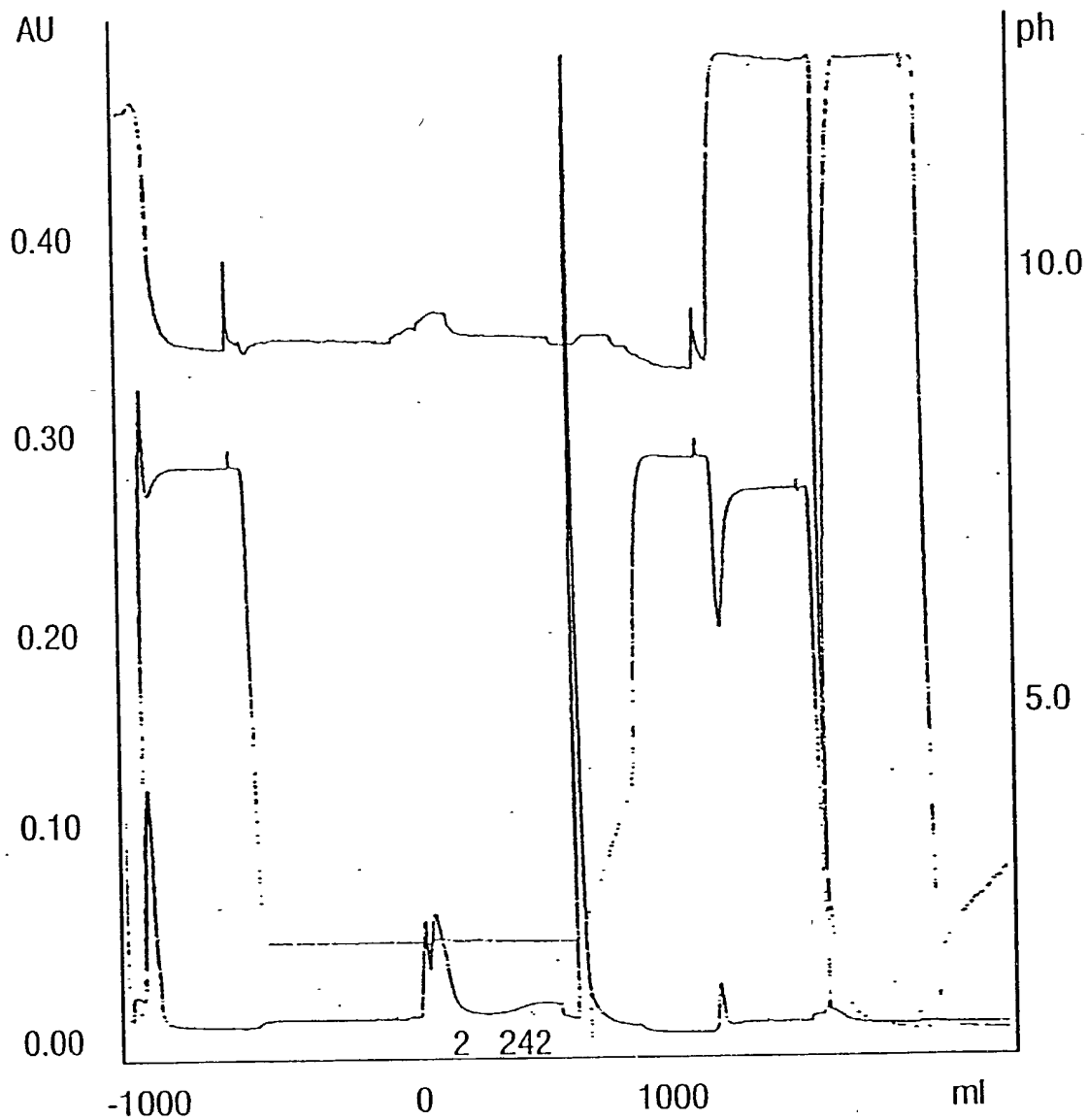


FIG. 17

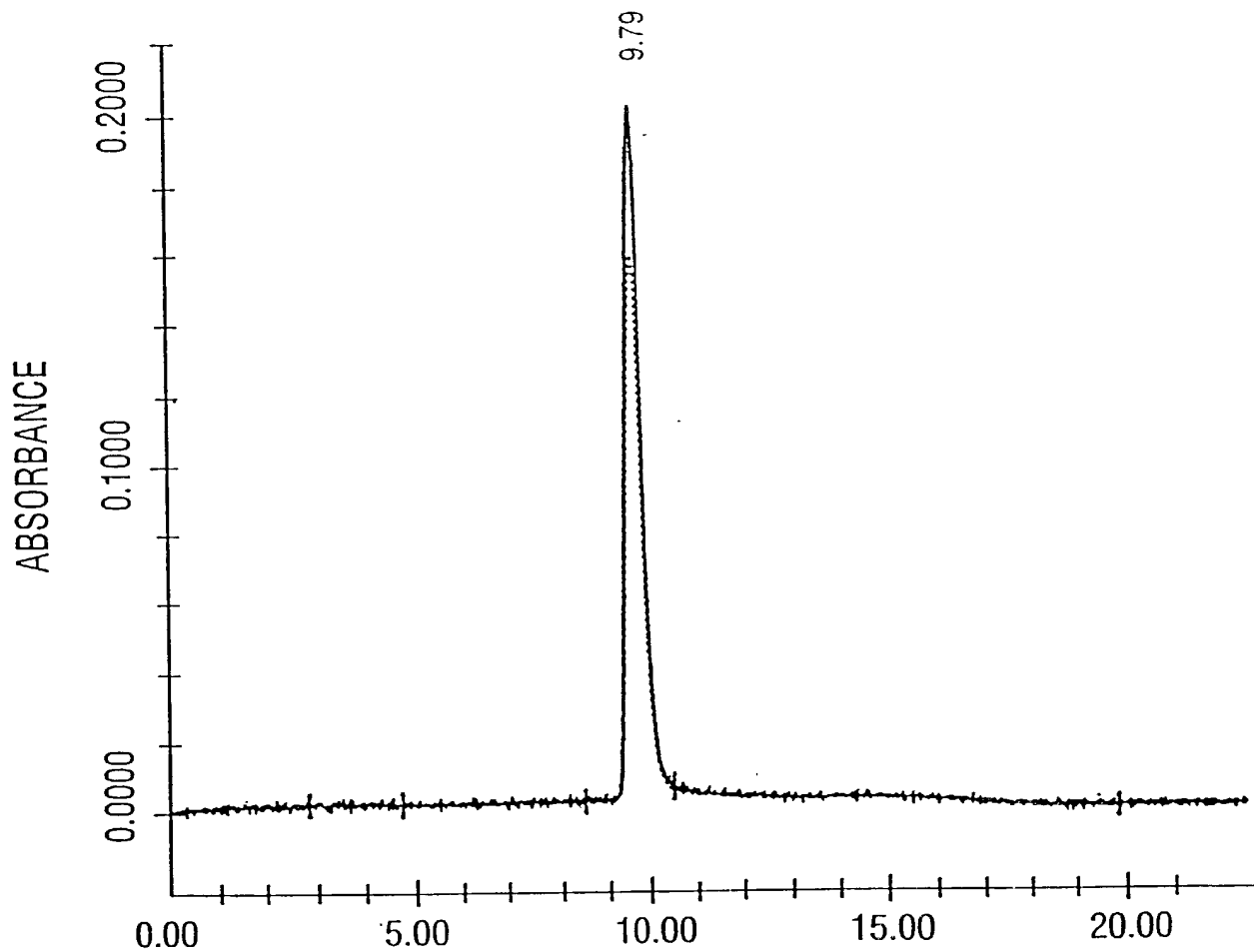


FIG. 18

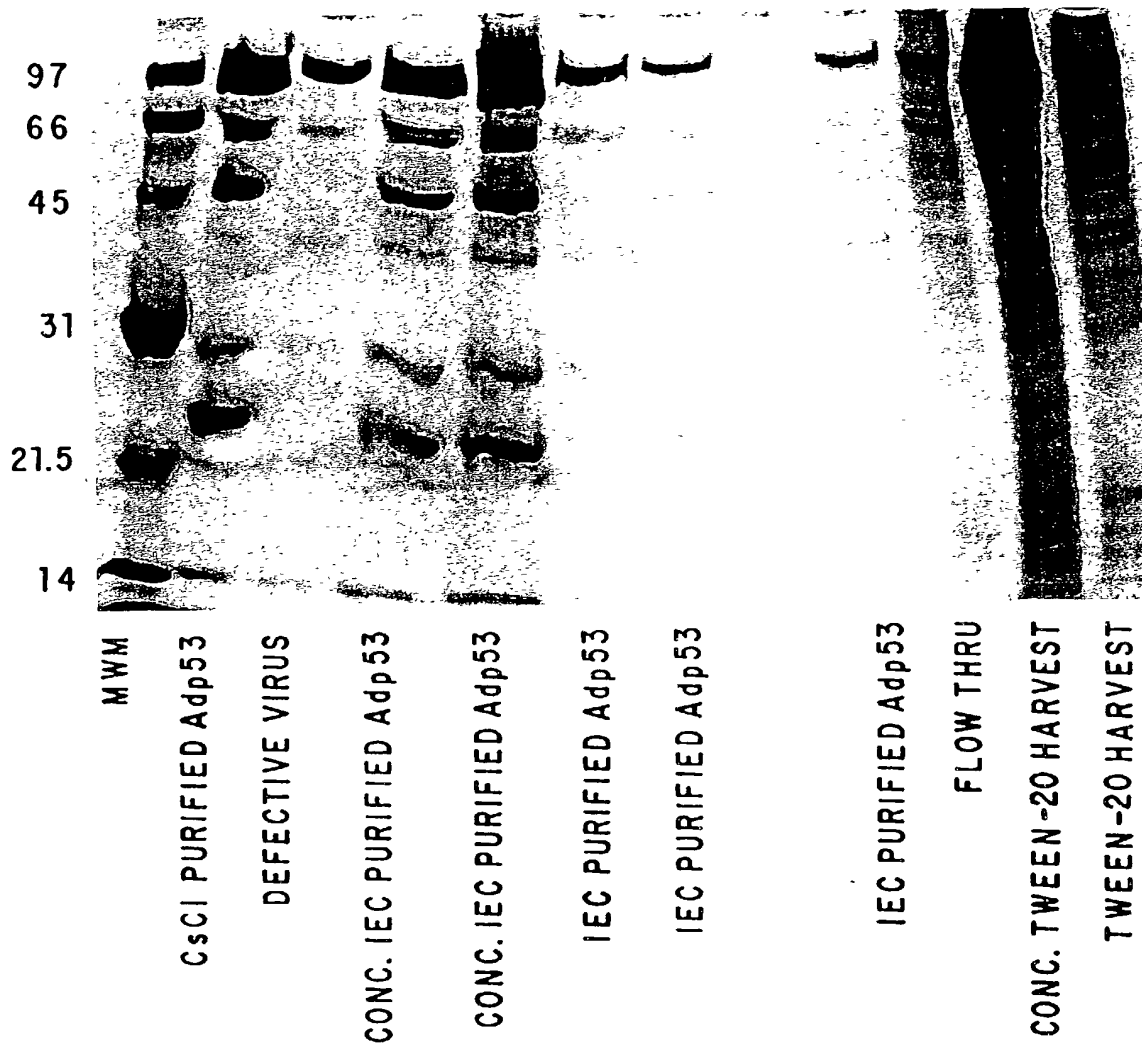


FIG.19A

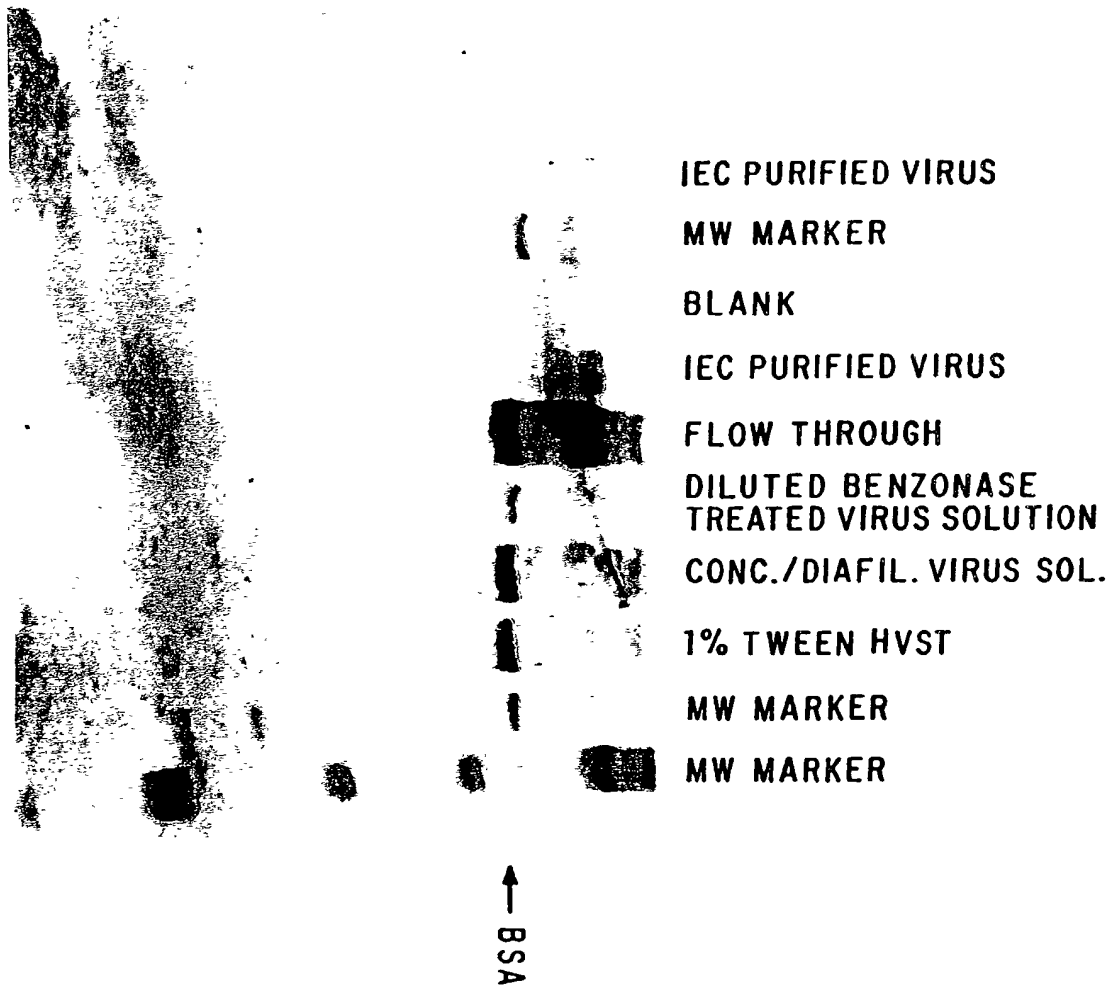


FIG.19B



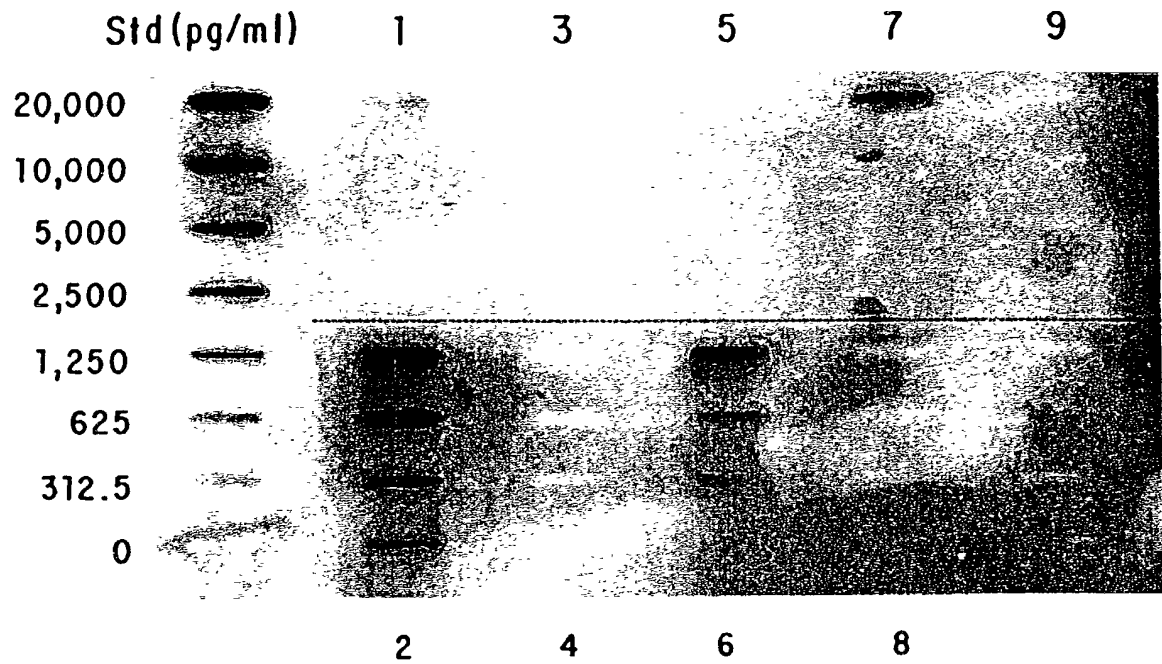


FIG.19C

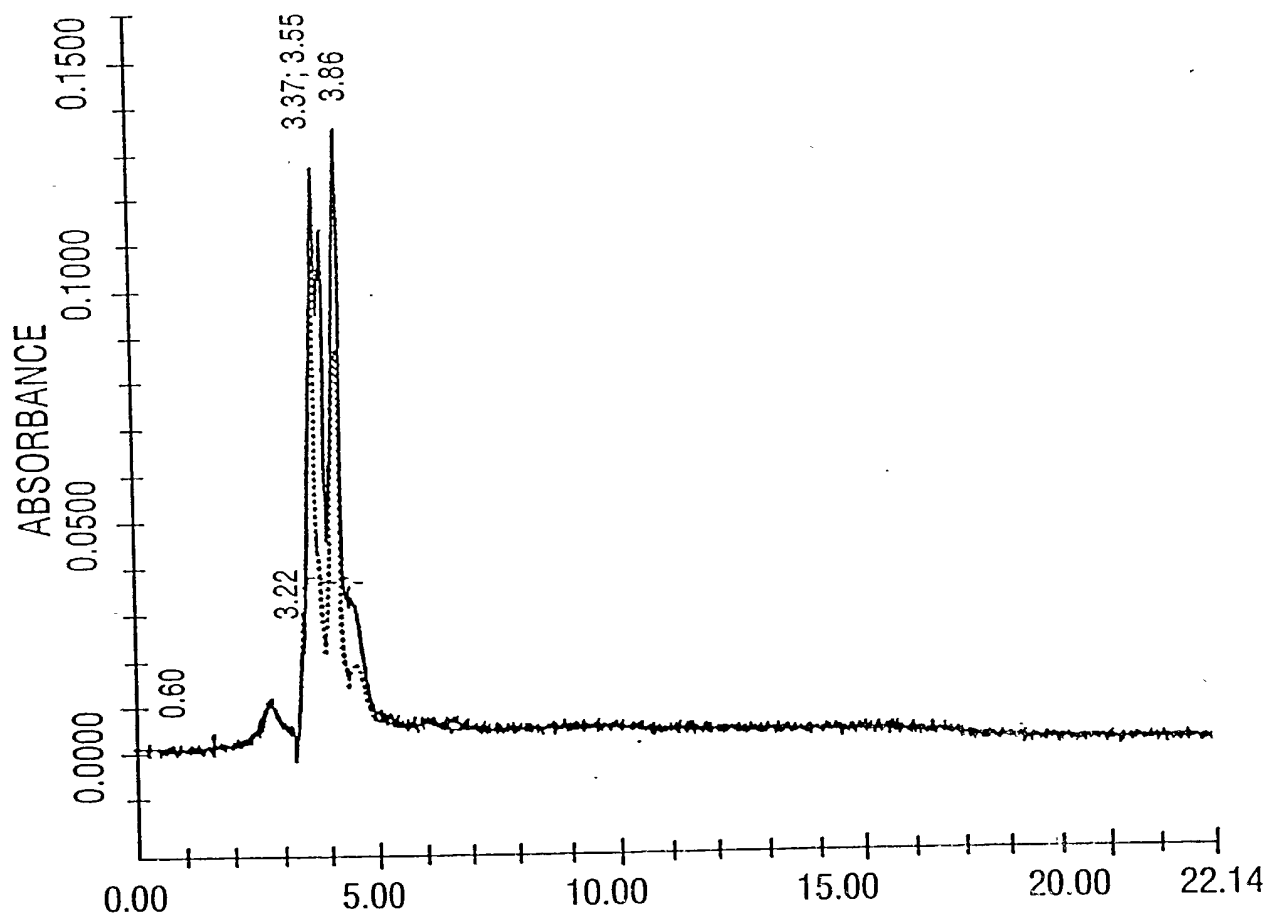


FIG. 20A

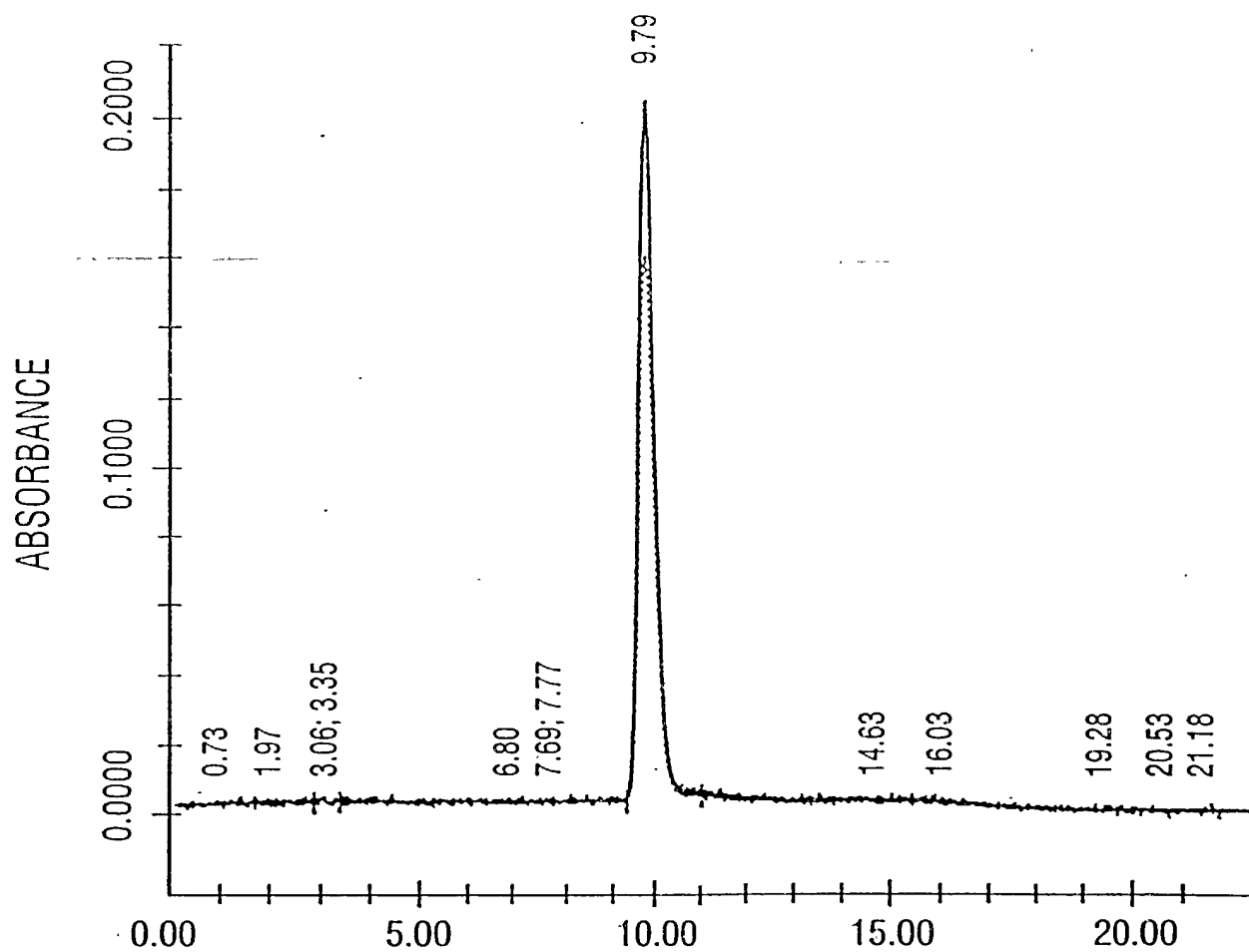


FIG. 20B

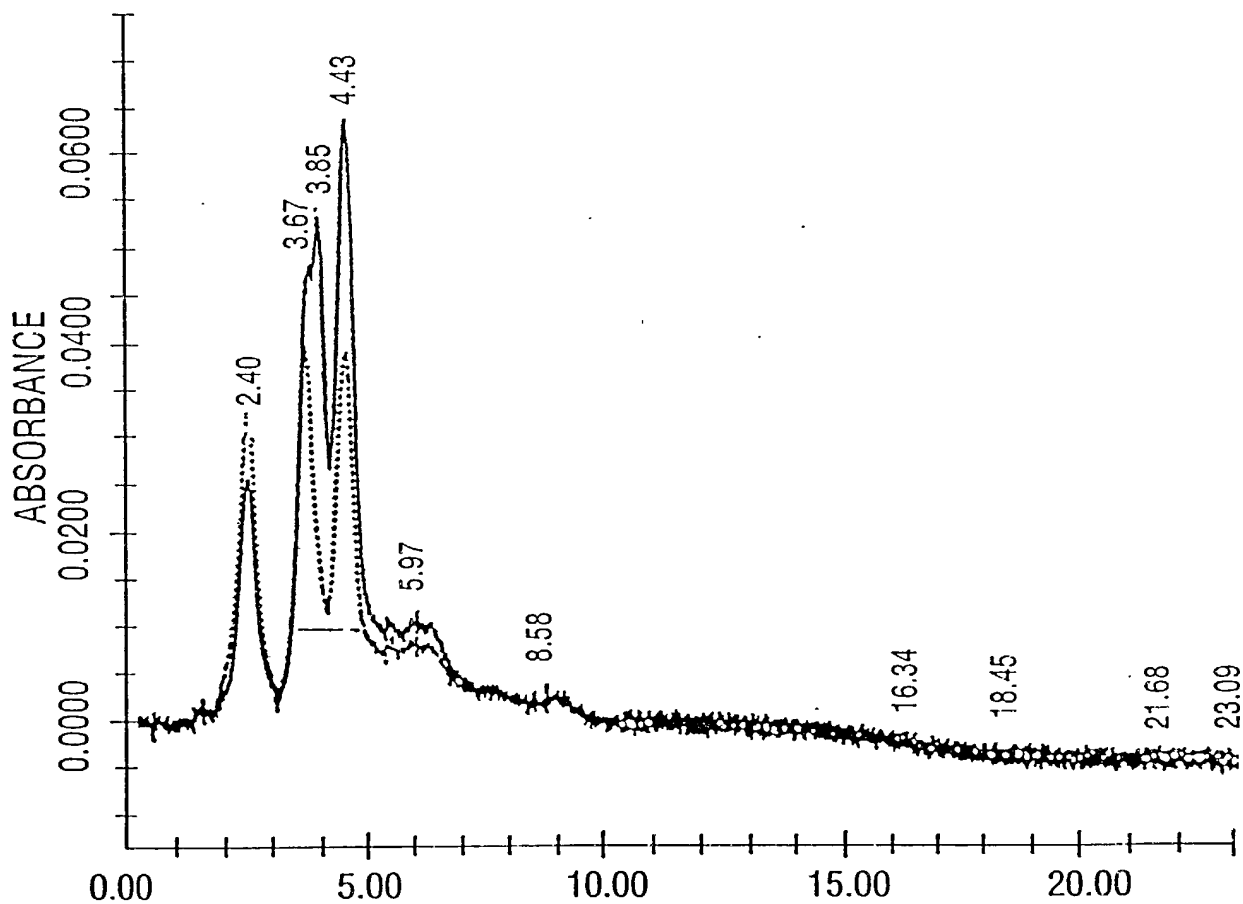


FIG. 20C

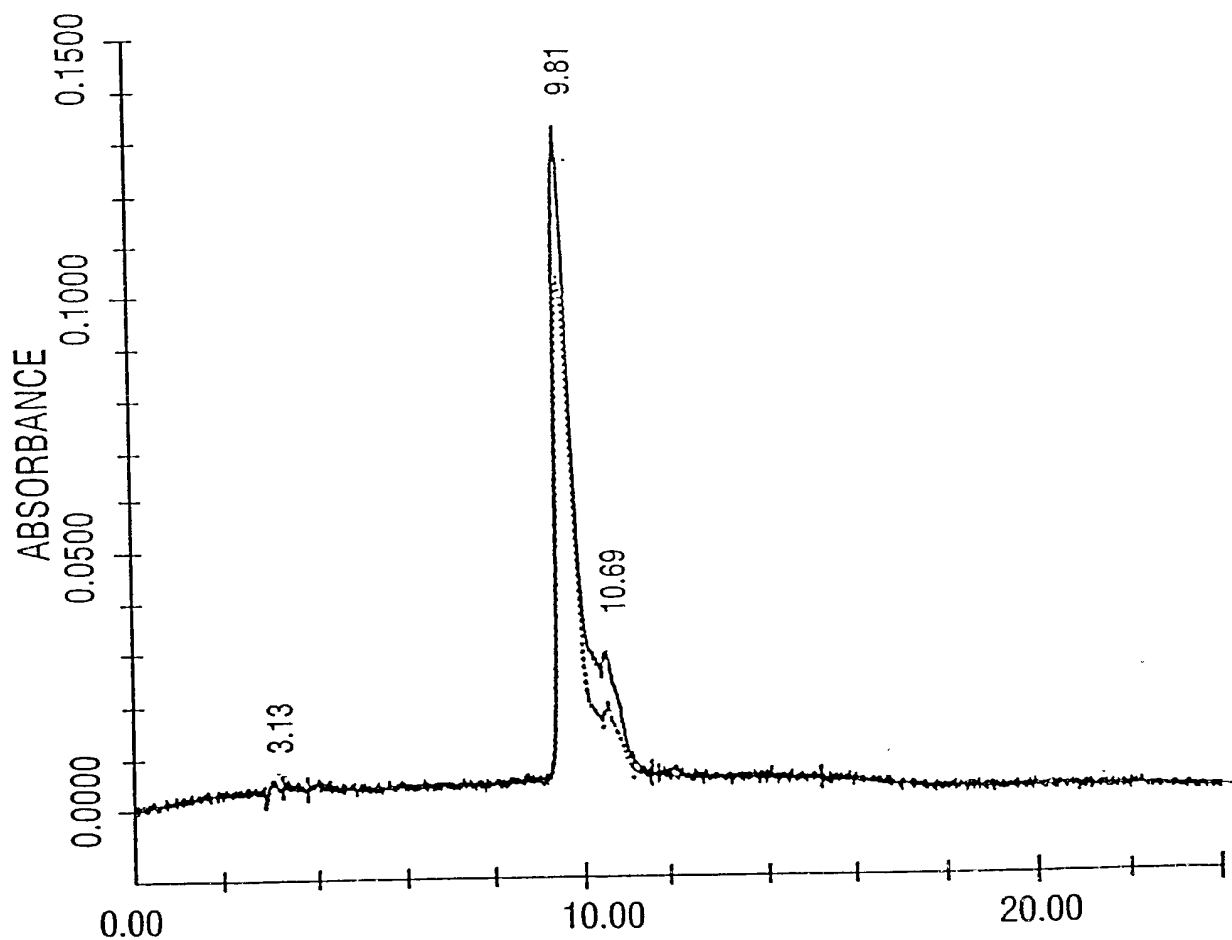


FIG. 20D

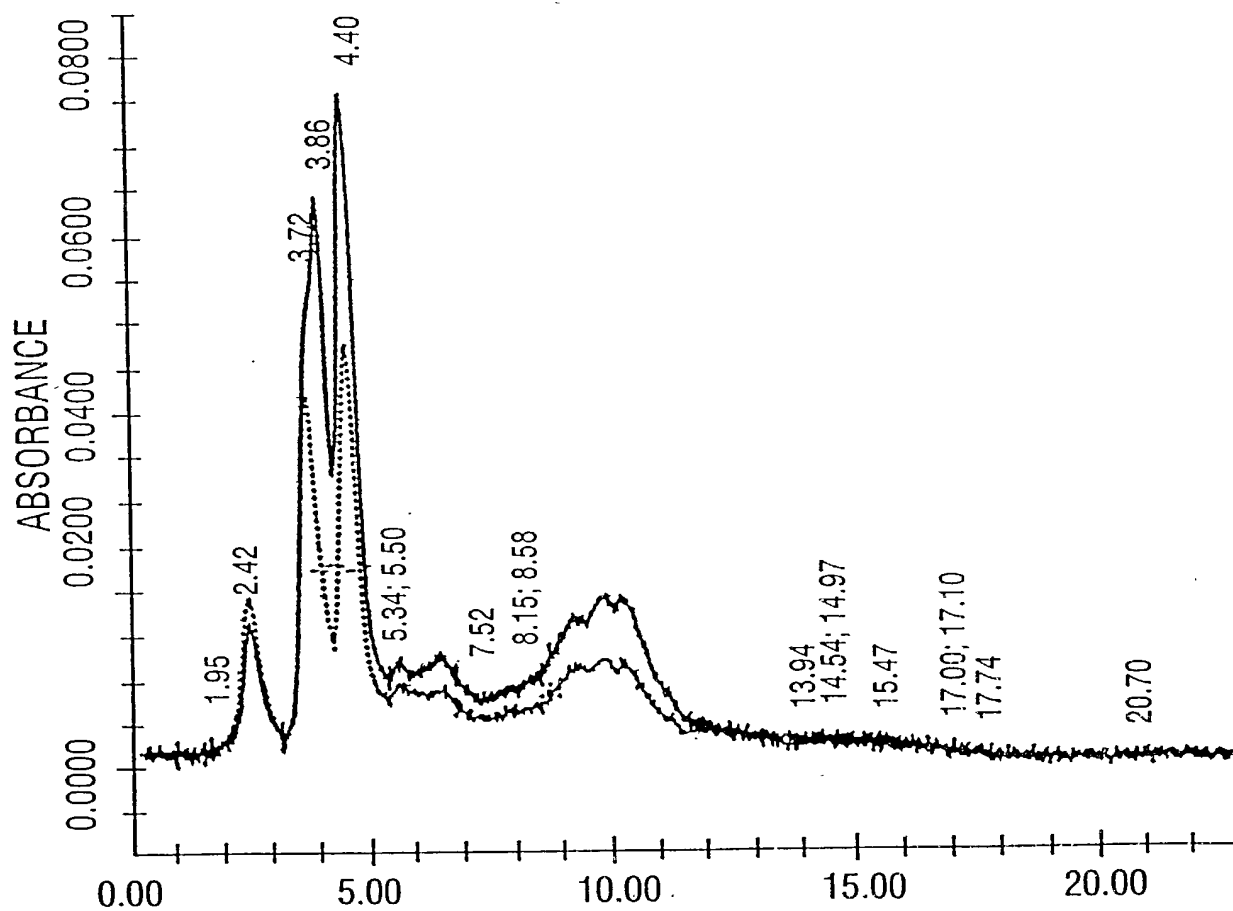
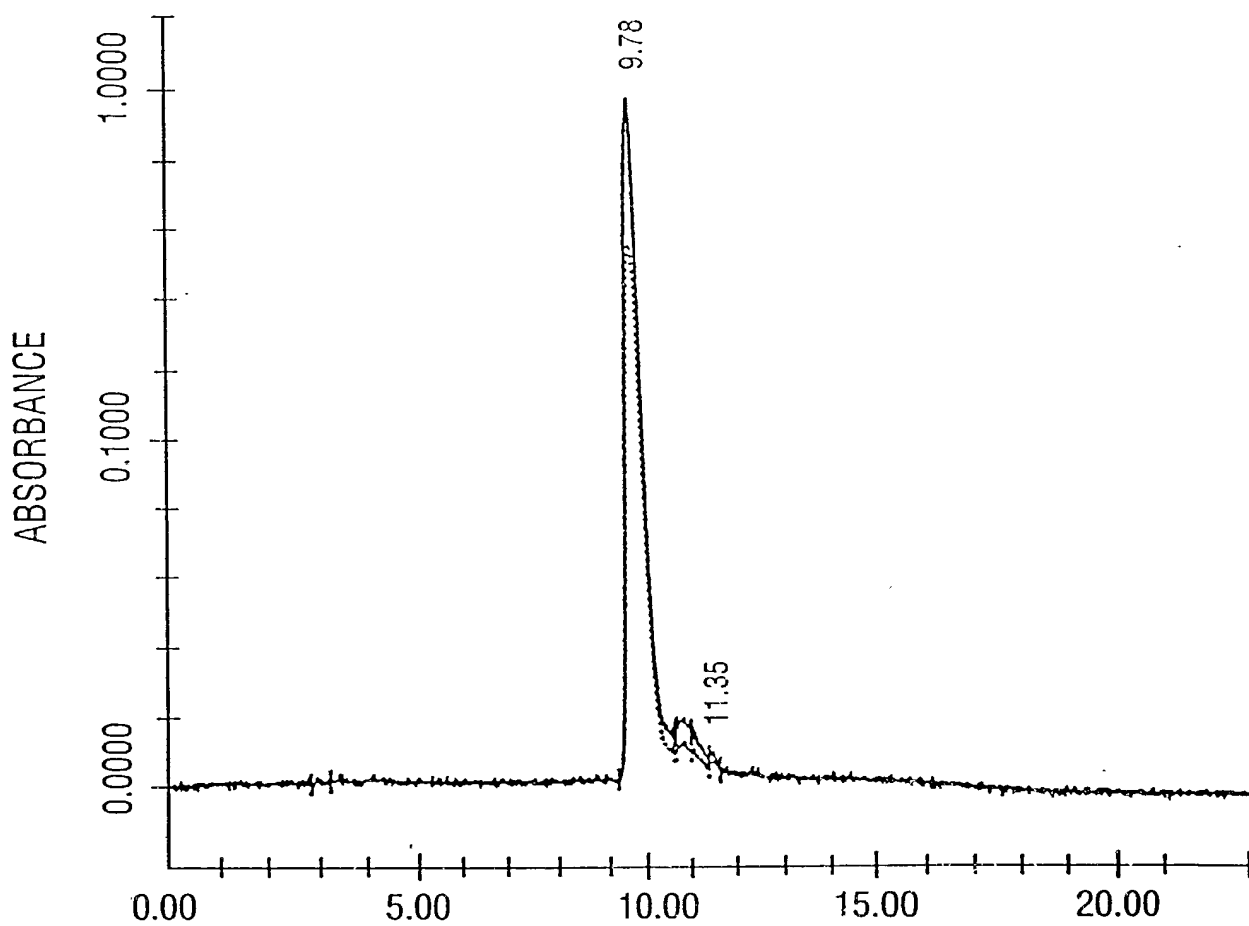
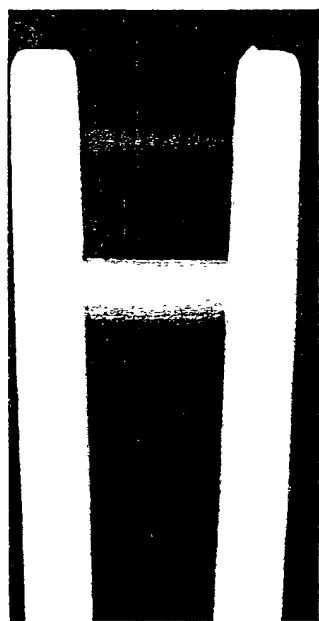


FIG. 20E





← DEFECTIVE VIRUS BAND (TITER:  $3 \times 10^7$  PFU/ml)

← INTACT VIRUS BAND (TITER:  $1 \times 10^{11}$  PFU/ml)

FIG.21



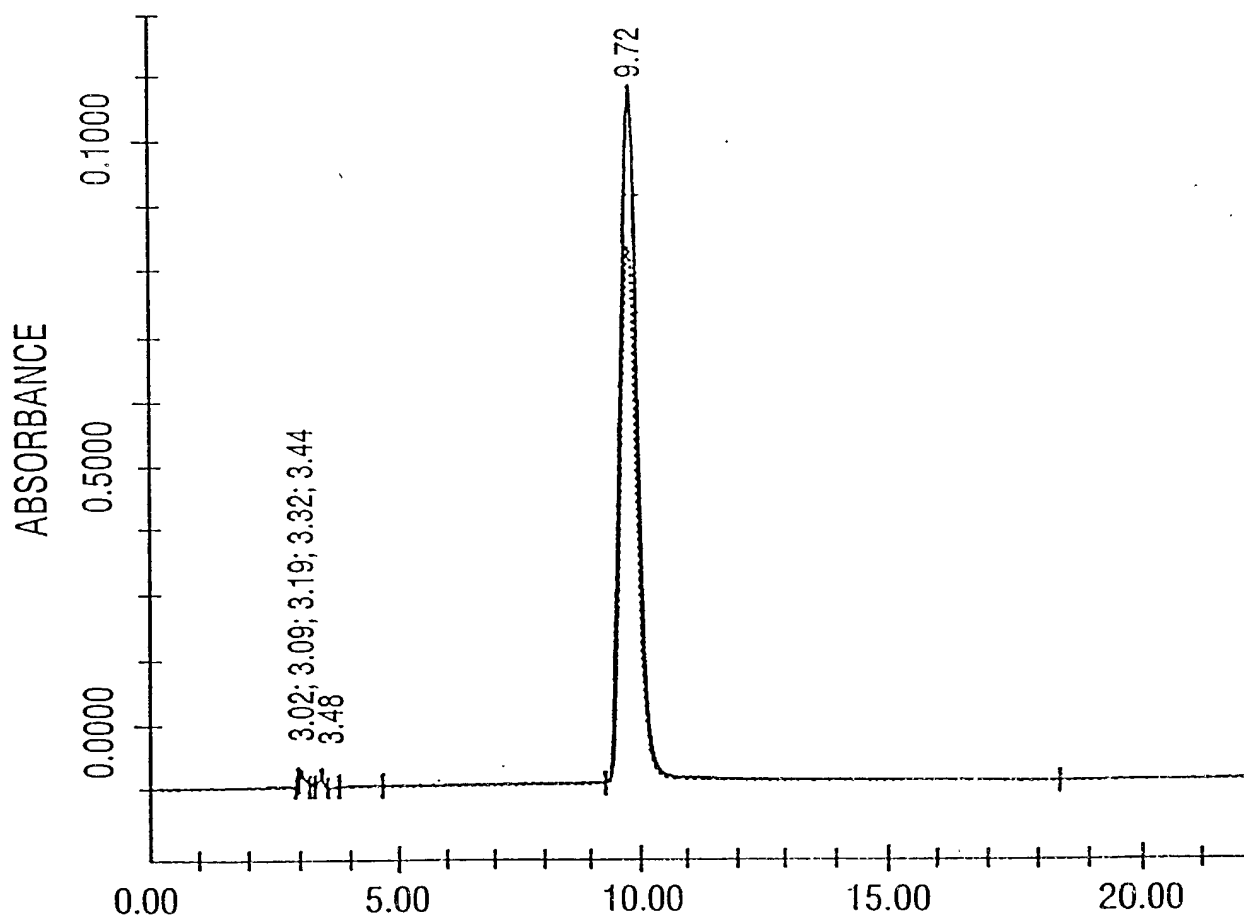


FIG. 22A

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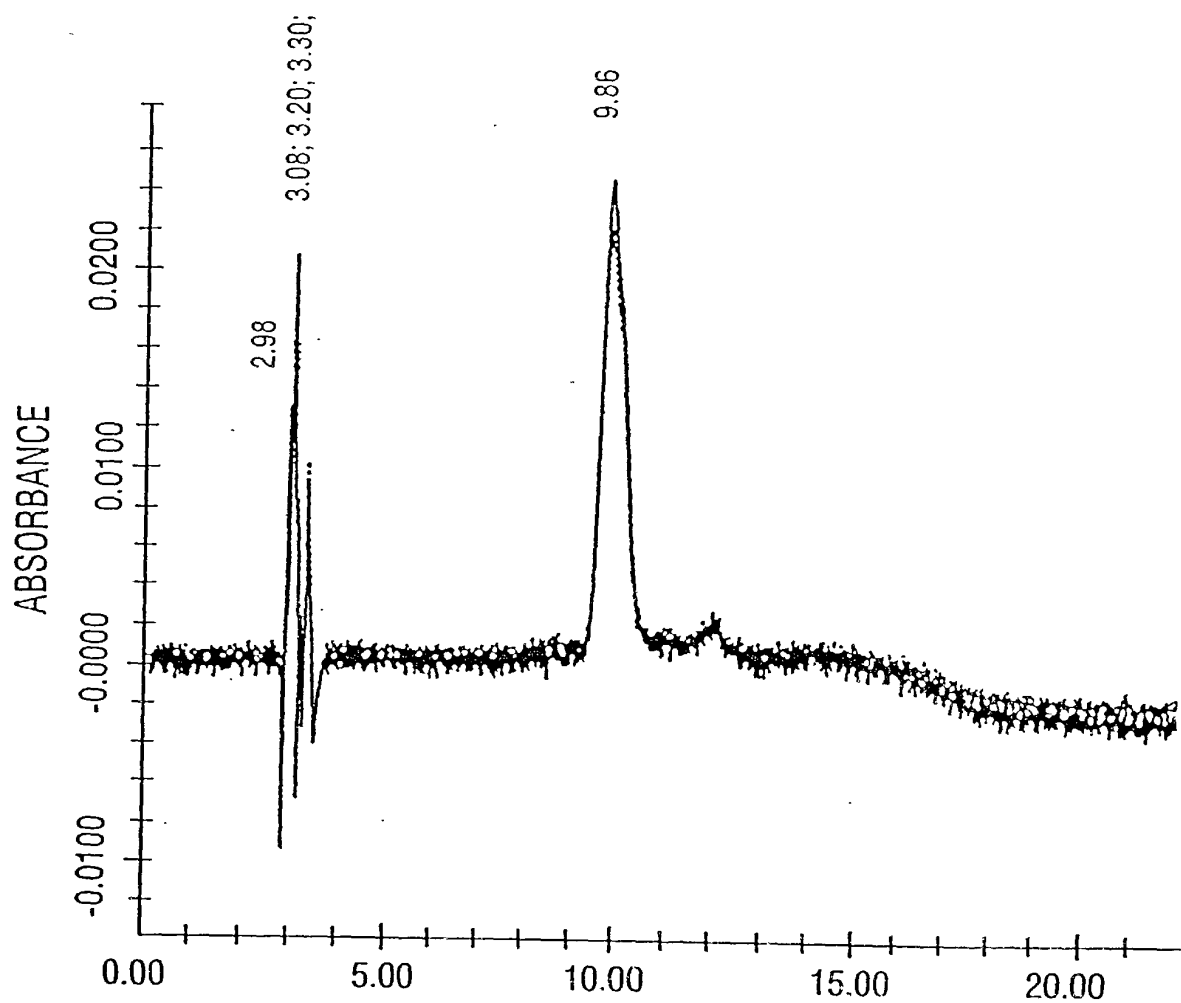


FIG. 22B

	TILTER (PFU/ML)	VOL. (ml)	YEILD (PFU)	RECOVERY (%)	STEP	ACC.
CUBE (LOW PERFUSION RATE ↓ KEEP GLUCOSE > 1g/L ↓ 1% TWEEN-20 BUFFER A ↓ HARVEST ↓ CLARIFICATION AND FILTRATION (0.22 UM) ↓ VIRUS SOLUTION	2.6x10 <sup>9</sup>	1900	4.9x10 <sup>12</sup>			
↓ CONC./DIAF. (10-FOLD CONC., DIAF ↓ INTO 1M NaCl BUFFER A ↓ CONC. SUP	2.5x10 <sup>10</sup>	200	5x10 <sup>12</sup>	102%		
↓ BENZONASE TREATMENT (O/N, RT, 100u/ml) ↓ TREATED SUP ↓ DILUTED WITH WATER TO CONDUCTIVITY= 22-25 mS/cm ↓ DILUTED VIRUS SOLUTION	7x10 <sup>9</sup>	700	4.9x10 <sup>12</sup>	98%	100%	
↓ PURIFIED VIRUS	1.5x10 <sup>10</sup>	240	3.6x10 <sup>12</sup>	73%	73%	
↓ CONC./DIAF (5-FOLD CONC) ↓ FINAL PURIFIED PRODUCT	7x10 <sup>10</sup>	50	3.5x10 <sup>12</sup>	97%	71%	

FIG. 23